

# **AIR CONDITIONER**

ACI/AOU-35HPR1

ACI/AOU-53HPR1

ACI/AOU-71HPR1

ACI/AOU-105HPS3

ACI/AOU-140HPS3

AFI/AOU-53HPR1

AFI/AOU-105HPS3

AFI/AOU-140HPS3

AFI/AOU-180HPS3

ATI/AOU-53HPR1

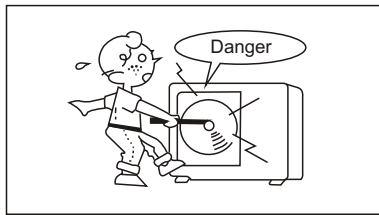
ATI/AOU-105HPS3

ATI/AOU-140HPS3



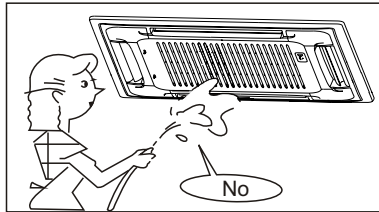
Thank you very much for purchasing our air conditioner, please read this owner's manual carefully before using your air conditioner.

## IMPORTANT SAFETY INFORMATION



### ⚠ CAUTION

Do not attempt to install this unit by yourself. This unit requires installation by qualified persons.

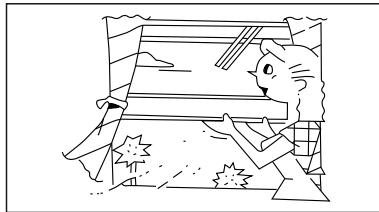


### ⚠ DANGER

Do not attempt to service the unit yourself. This unit has no user serviceable components. Opening or removing the cover will expose you to dangerous voltage. Turning off the power supply will not prevent potential electric shock.

### ⚠ DANGER

Never put hands or objects into the Air Outlet of indoor or outdoor units. These units are installed with a fan running at high speed. To touch the moving fan will cause serious injury.

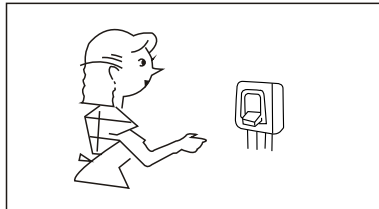


### ⚠ DANGER

To avoid the risk of serious electrical shock, Never sprinkle or spill water or liquids on unit.

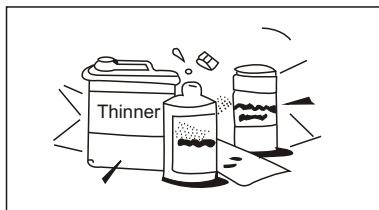
### ⚠ WARNING

Ventilate the room regularly while the air conditioner is in use, especially if there is also a gas appliance in use in this room. Failure to follow these directions may result in a loss of oxygen in the room.



### ⚠ WARNING

To prevent electric shock, turn off the power or disconnect the power supply plug before beginning any cleaning or other routine maintenance. Follow the directions for cleaning in the Owner's Manual.

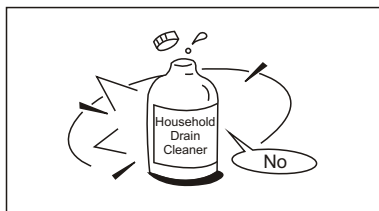


### ⚠ WARNING

Do not use liquid cleaners or aerosol cleaners, use a soft and dry cloth for cleaning the unit. To avoid electric shock, never attempt to clean the units by sprinkling water.

### ⚠ CAUTION

Do not use caustic household drain cleaners in the unit. Drain cleaners can quickly destroy the unit components (drain pan and heat exchanger coil etc).



### ⚠ NOTE

For proper performance, operate the unit in temperature and humidity ranges indicated in this owner's manual. If the unit is operated beyond these conditions, it may cause malfunctions of the unit or dew dripping from the unit.

## HINTS FOR ECONOMICAL OPERATION

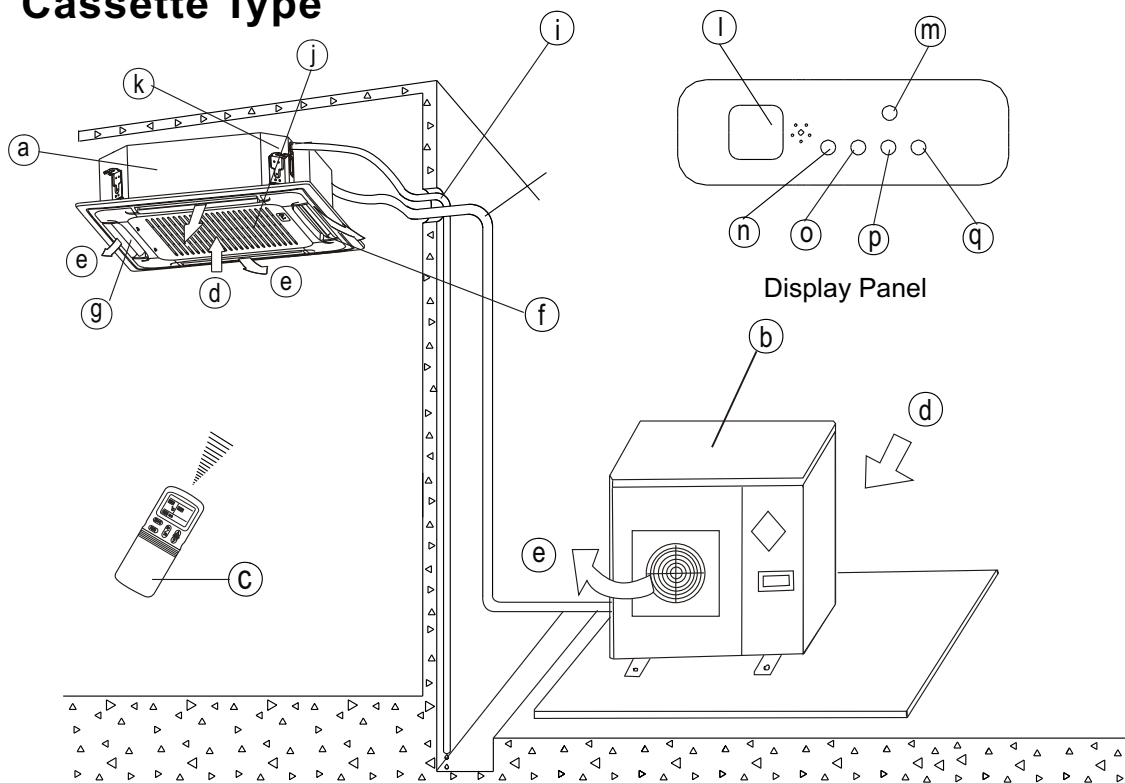
The following should be noticed to ensure an economical operation. (Refer to corresponding chapter for details)

- Adjust the air flow direction properly to avoid winding toward your body.
- Adjust the room temperature properly to get a comfortable situation and to avoid supercooling and superheat.
- In cooling, close the curtains to avoid direct sunlight.
- To keep cool or warm air in the room, never open doors or windows more often than necessary.
- Set the timer for the desired operating time.
- Never put obstructions near the air outlet or the air inlet. Or it will cause lower efficiency, even a sudden stop.
- If you don't plan to use the unit for a long time, please disconnect power and remove the batteries from the remote controller. When the power switch is connected, some energy will be consumed, even if the air conditioner isn't in operation. So please disconnect the power to save energy. And please switch the power on 12 hours before you restart the unit to ensure a smooth operation.
- A clogged air filter will reduce cooling or heating efficiency, please clean it once two weeks.

## PARTS NAMES

The air conditioner consists of the indoor unit, the outdoor unit, the connecting pipe and the remote controller.

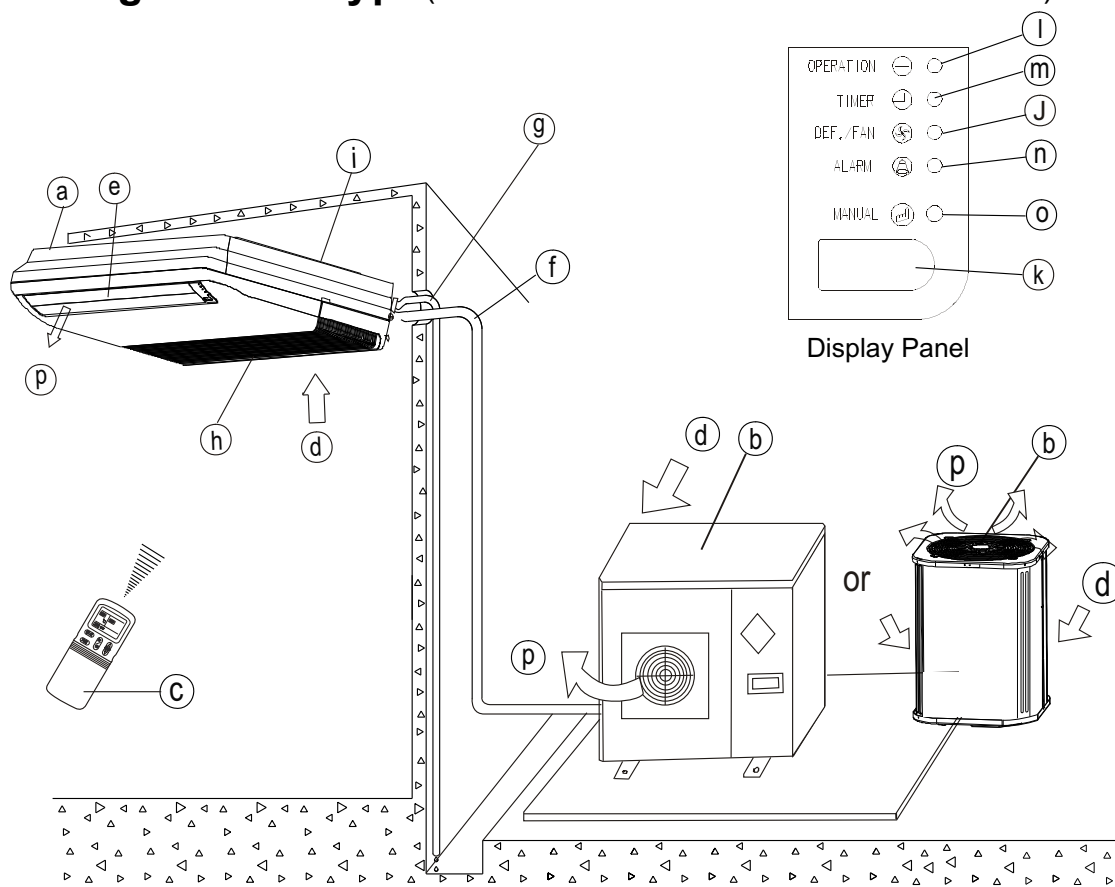
### ■ Cassette Type



### NOTICE!

This chart is based on 24000Btu/h type. So, a few differences may exist on the outlook and functions from yours.

## ■ Ceiling & Floor Type (for VERTICAL DISCHARGE AIR CONDITIONER)



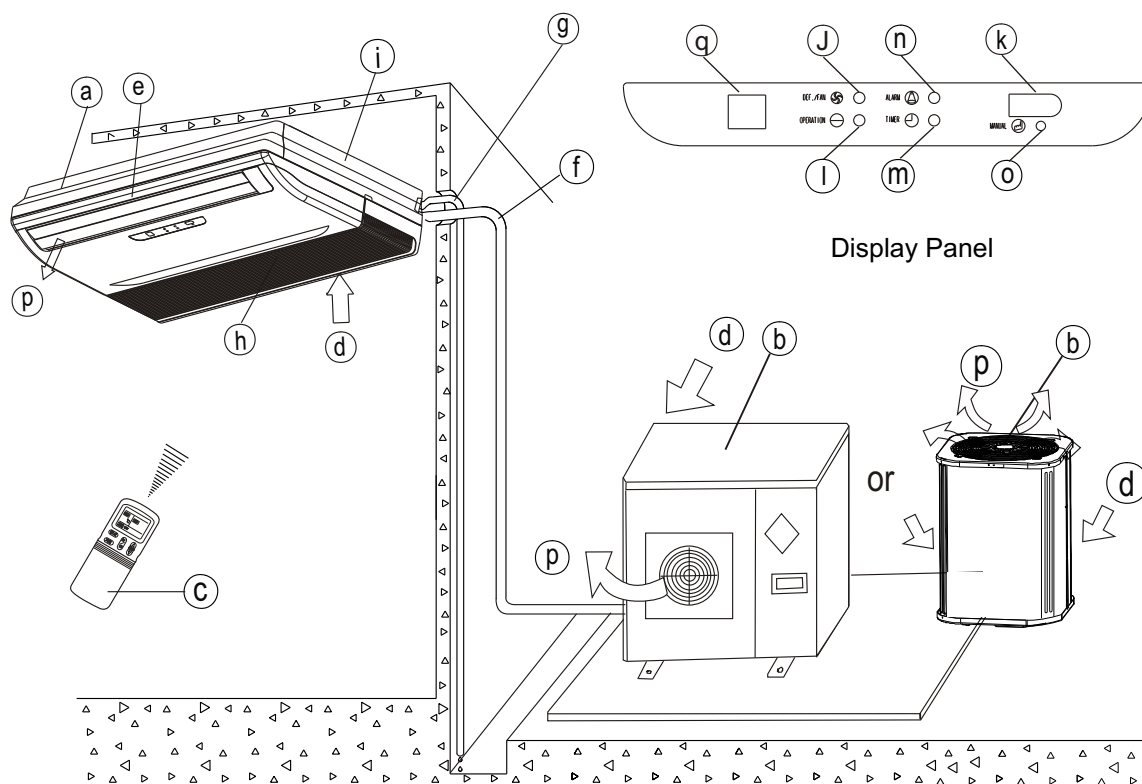
### NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

### NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-in	(e)	air flow louver (at air outlet)	(f)	connecting pipe
(g)	drain hose	(h)	air inlet (with air filter in it)		
(i)	installation part	(j)	<b>FAN/DEF indicator</b> (For cooling and heating type, its D EF., for cooling only type, its F AN)		
(k)	infrared signal receiver	(l)	operation lamp		
(m)	timer indicator	(n)	alarm indicator		
(o)	temporary button	(p)	air-out		

## ■ Ceiling & Floor Type



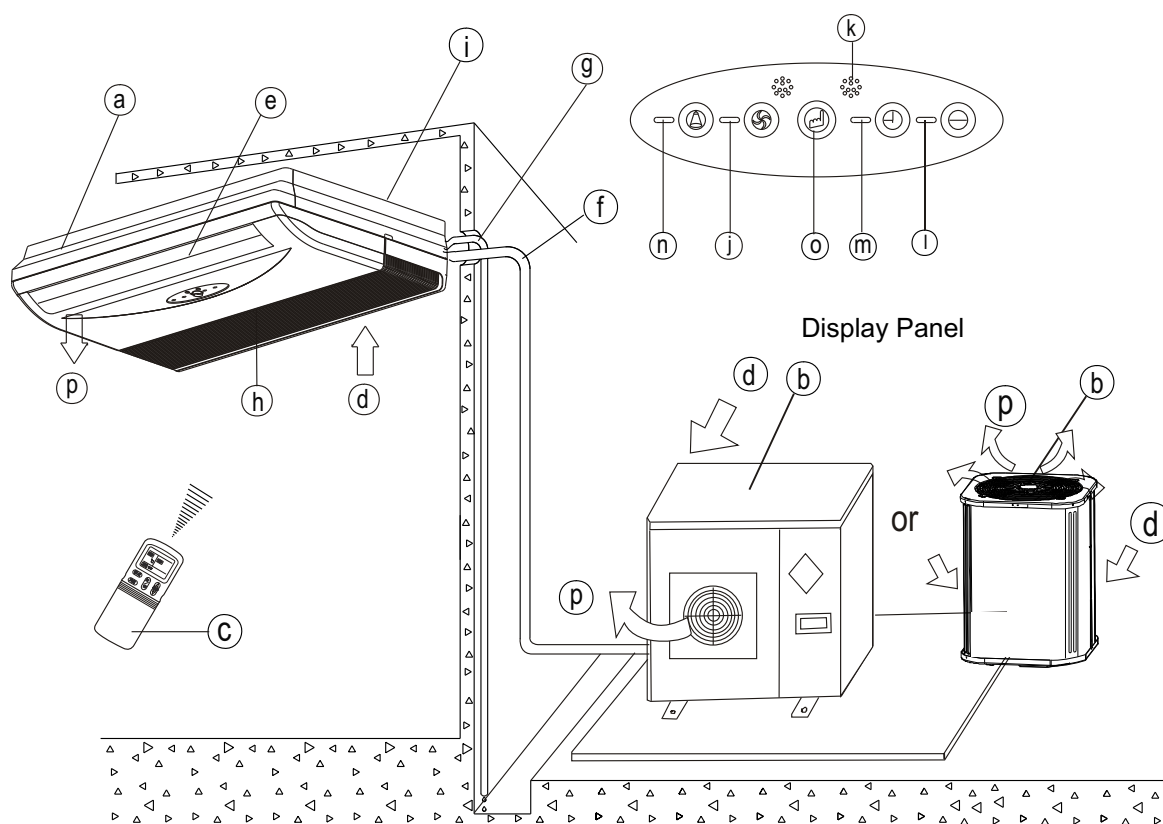
### NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

### NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-in	(e)	air flow louver (at air outlet)	(f)	connecting pipe
(g)	drain hose	(h)	air inlet (with air filter in it)		
(i)	installation part	(j)	<b>FAN/DEF indicator</b> (For cooling and heating type, its D EF., for cooling only type, its F AN)		
(k)	infrared signal receiver	(l)	operation lamp		
(m)	timer indicator	(n)	Alarm Indicator		
(o)	temporary button	(p)	air-out	(q)	Temperature display

## ■ Ceiling & Floor Type



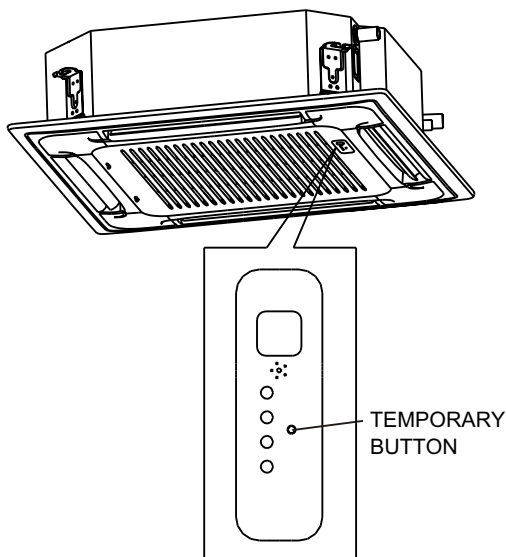
### NOTICE!

The chart based on one model of our product is for reference only, which may be different from the unit you purchased.

### NAMES AND FUNCTIONS

(a)	indoor unit	(b)	outdoor unit	(c)	remote controller
(d)	air-in	(e)	air flow louver (at air outlet)	(f)	connecting pipe
(g)	drain hose	(h)	air inlet (with air filter in it)		
(i)	installation part	(j)	<b>FAN/DEF indicator</b> (For cooling and heating type, its D EF.,for cooling only type, its F AN)		
(k)	infrared signal receiver	(l)	operation lamp		
(m)	timer indicator	(n)	alarm indicator		
(o)	temporary button	(p)	air-out		

## TEMPORARY OPERATIONS



This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. Two modes including AUTO and mandatory COOL can be selected through the TEMPORARY BUTTON on the air inlet grill control box of the indoor unit. Once you push this button, the air conditioner will run in such order: AUTO, mandatory COOL, OFF, and back to AUTO.

### 1. AUTO

The OPERATION lamp is lit, and the air conditioner will run under AUTO mode. The remote controller operation is enabled to operate according to the received signal.

### 2. mandatory COOL

The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with a wind speed of HIGH for 30 minutes. The remote controller operation is disabled.

### 3. OFF

The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.

**Note:** Only take the cassette type as example.

## MAINTENANCE

### ▲ WARNING

#### WARNING

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

### Cleaning the indoor unit and remote controller

### ▲ CAUTIONS

- Use a dry cloth to wipe the indoor unit and remote controller.
- A cloth dampened with cold water may be used on the indoor unit if it is very dirty.
- Never use a damp cloth on the remote controller.
- Do not use a chemically-treated duster for wiping or leave such material on the unit for long, because it may damage or fade the surface of the unit.
- Do not use benzine, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.

If you do not plan to use the unit for at least 1 month.

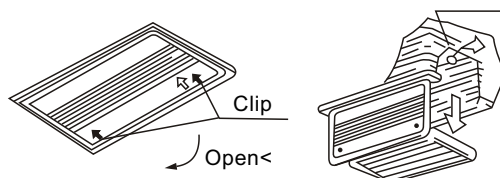
- (1) Operate the fan for about half a day to dry the inside of the unit.
- (2) Stop the air conditioner and disconnect power.
- (3) Remove the batteries from the remote controller.

## ■ Duct and Ceiling Type

### 1. Open the air-in grill

Push the grill switches towards the middle simultaneously as indicated in follow figure sketch. Then pull down the air-in grill.

**Cautions:** The control box cables ,which are originally connected with the main body electrical terminators must be pulled off before doing as indicated above.



### 2. Take out the air-in grill.

### 3. Dismantle the air filter

### 4. Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy , please use soft brush and mild detergent to clean it and dry out in cool place) .

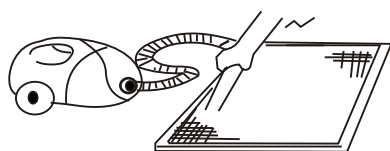


Fig. 1

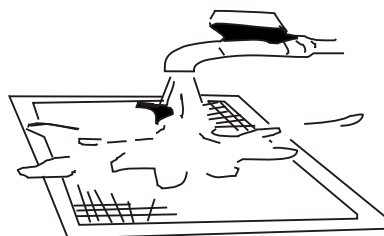


Fig. 2

- The air-in side should face up when using vacuum cleaner. (See Fig. 1)

- The air-in side should face down when using water. (See Fig. 2)

**Cautions :** Do not dry out the air filter under direct sunshine or with fire.

### 5. Re-install the air filter

### 6. Install and close the air-in grill in the reverse order of step 1 and 2 and connect the control box cables to the corresponding terminators of the main body .

**Note:** High-static Pressure Parvis Split Type has no air filter.

## AIR CONDITIONER OPERATIONS AND PERFORMANCE

### Three-minute protection feature

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

### Power failure

Power failure during operation will stop the unit completely.

- The OPERATION lamp on the indoor unit will start flashing when power is restored.
- To restart operation, push the ON/OFF button on the remote controller.
- Lightning or a car wireless telephone operating nearby may cause the unit to malfunction.

Disconnect the unit with the power and then connect the unit with the power again. Push the ON/OFF button on the remote controller to restart operation.



## Air conditioner operating conditions

For proper performance, run the air conditioner under the following temperature conditions:

Cooling operation	Outdoor temperature: 21 to 43°C
	Room temperature: 17 to 32°C
	<b>CAUTION</b> Room relative humidity less than 80%. If the air conditioner operates in excess of this figure, the surface of the air conditioner may attract condensation.
Heating operating (cooling only type without)	Outdoor temperature: -5 to 24°C
	Room temperature: 0 to 30°C
Dry operation	Outdoor temperature: 11 to 43°C
	Room temperature: 17 to 30°C

If air conditioner is used beyond the above conditions, safety protection features may come into operation.

## INSTALLATION

### Location:

- During cooling operation, the air conditioner will dry the room air, so please fix a pipe to drain all the water away from the air conditioner.
- Please let the indoor unit more than one metre away from the TV set and the radio in order to avoid the picture and noise interference.
- Powerful radio transmitters or any other devices radiating high frequency radio waves can cause the air conditioner to malfunction. Please consult the dealer where you purchased the air conditioner before installing it.
- Don't fix the unit in the dangerous region with combustible gas or volatile matter.
- If the air conditioner operates in an atmosphere containing oils (machine oil), salt (near a coastal area), sulfide gas (near a hot spring), etc., such substances may lead to failure of the air conditioner.

### Be careful of noise or vibrations

- Please fix the unit in the stable place to avoid the noise or vibrations.
- The noise near the air outlet of the outdoor unit may enter the air exit.
- Locate the outdoor unit where noise emitted by it or hot air from its air outlet will cause no nuisance to your neighbours.
- If the air conditioner sounds abnormal during operation, contact the dealer where you purchased the air conditioner.

### Wire

- To avoid the electric shock, please link the air conditioner with the ground. The plug in the air conditioner has joined the ground wiring, please don't change it freely.
- The power socket is used as the air conditioner specially.
- Don't pull the power wiring hard.
- When linking the air conditioner with the ground, observe the local rulers.
- If necessary, use the power fuse or the circuit, breaker or the corresponding scale ampere.  
If you want to change the power wiring, please contact the centre service of the local MD electric appliance.

### Relocation

If you move out or if it is desired to relocate the air conditioner, consult your dealer, because special skills to withdraw Freon, purge air and perform other operations are required.

## TROUBLES AND CAUSES

Before you ask for servicing or repairs, check the following points.

### Recheck

#### Inoperative

- The power fuse is blown or the circuit breaker has been tripped.
- The batteries in the remote controller are exhausted.
- The timer is set.

#### Does not cool or heat well.

- The air inlet or outlet of the outdoor unit is blocked.
- Doors or windows are open.
- The air filter is clogged with dust.
- The louver is not at the correct position.
- The fan speed is set to low.
- The temperature setting is too high or too low.

### These are not failures

#### Room air is smelly.

A bad odor comes from the air conditioner.

- Smells impregnated in the wall, carpet, furniture, clothing, or furs, are coming out. A white mist of chilled air or water is generated from the outdoor unit.

### CAUTION

If any of the following conditions occur, stop the air conditioner immediately, set to off the power switch, and contact the dealer:

- The indicator lamps flash rapidly (five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Any other unusual condition is observed.

## TROUBLES AND CAUSES (CONCERNING REMOTE CONTROLLER)

Before you ask for servicing or repairs, check the following points.

Setting Change is Impossible		
Symptoms	Causes	Reason and Disposal
The fan speed can not be changed.	<ul style="list-style-type: none"> <li>• Check whether the MODE indicated on the display is "AUTO"</li> </ul>	When the automatic mode is selected, the air conditioner automatically selects the fan speed.
	<ul style="list-style-type: none"> <li>• Check whether the MODE indicated on the display is "DRY"</li> </ul>	When dry operation is selected, the air conditioner automatically select the fan speed. The fan speed can be selected during "COOL" and "FAN ONLY", and "HEAT"

The Transmission Indicator "▲" Never Comes On		
Symptoms	Causes	Reason and Disposal
The remote control signal is not transmitted even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> <li>Check whether the batteries in the remote controller are exhausted.</li> </ul>	The remote control signal is not transmitted, because the power supply is off.

The Display Never Comes On		
Symptoms	Causes	Reason
The TEMP. indicator does not come on.	<ul style="list-style-type: none"> <li>Check whether the MODE indicated on the display is "FAN ONLY". <b>FAN ONLY</b></li> </ul>	The temperature cannot be set during fan only operation.

The Display Goes Off		
Symptoms	Causes	Reason
The indication on the display disappears after a lapse of time.	<ul style="list-style-type: none"> <li>Check whether the timer operation has come to an end when the OFF TIMER is indicated on the display.</li> </ul>	The air conditioner operation stops since the set time elapsed.
The ON TIMER indicators go off after a lapse of certain time.	<ul style="list-style-type: none"> <li>Check whether the timer operation is started when the ON TIMER is indicated on the display.</li> </ul>	When the time set to start the air conditioner is reached, the air conditioner will automatically start and the appropriate indicator will go off.

The Signal Receiving Tone does Not Sound		
Symptoms	Causes	Disposal
No receiving tone sounds from the indoor unit even when the ON/OFF button is pushed.	<ul style="list-style-type: none"> <li>Check whether the signal transmitter of the remote controller is properly directed to the receiver of the indoor unit when the ON/OFF button is pushed.</li> </ul>	Direct the signal transmitter of the remote controller to the receiver of the indoor unit, and then repeatedly push the ON/OFF button twice.
Buttons on the remote controller don't work.		Press Reset button.