

# SPLIT TYPE ROOM AIR CONDITIONER

## OPERATION MANUAL

HSU-09HEA03/(BP)

HSU-12HEA03/(BP)

- Please read this operation manual before using the air conditioner.

# Cautions

## Disposal of the old air conditioner

Before disposing an old air conditioner that goes out of use, please make sure it's inoperative and safe. Unplug the air conditioner in order to avoid the risk of child entrapment.

It must be noticed that air conditioner system contains refrigerants, which require specialized waste disposal. The valuable materials contained in an air conditioner can be recycled. Contact your local waste disposal center for proper disposal of an old air conditioner and contact your local authority or your dealer if you have any question. Please ensure that the pipework of your air conditioner does not get damaged prior to being picked up by the relevant waste disposal center, and contribute to environmental awareness by insisting on an appropriate, anti-pollution method of disposal.

## Disposal of the packaging of your new air conditioner

All the packaging materials employed in the package of your new air conditioner may be disposed without any danger to the environment.

The cardboard box may be broken or cut into smaller pieces and given to a waste paper disposal service. The wrapping bag made of polyethylene and the polyethylene foam pads contain no fluorochloric hydrocarbon.

All these valuable materials may be taken to a waste collecting center and used again after adequate recycling.

Consult your local authorities for the name and address of the waste materials collecting centers and waste paper disposal services nearest to your house.

## Safety Instructions and Warnings

Before starting the air conditioner, read the information given in the User's Guide carefully. The User's Guide contains very important observations relating to the assembly, operation and maintenance of the air conditioner.

The manufacturer does not accept responsibility for any damages that may arise due to non-observation of the following instruction.

- Damaged air conditioners are not to be put into operation. In case of doubt, consult your supplier.
- Use of the air conditioner is to be carried out in strict compliance with the relative instructions set forth in the User's Guide.
- Installation shall be done by professional people, don't install unit by yourself.
- For the purpose of the safety, the air conditioner must be properly grounded in accordance with specifications.
- Always remember to unplug the air conditioner before opening inlet grill. Never unplug your air conditioner by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet.
- All electrical repairs must be carried out by qualified electricians. Inadequate repairs may result in a major source of danger for the user of the air conditioner.
- Do not damage any parts of the air conditioner that carry refrigerant by piercing or perforating the air conditioner's tubes with sharp or pointed items, crushing or twisting any tubes, or scraping the coatings off the surfaces. If the refrigerant spurts out and gets into eyes, it may result in serious eye injuries.

# Cautions

- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any other things into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

## Specifications

- The refrigerating circuit is leak-proof.

The machine is adaptive in following situation

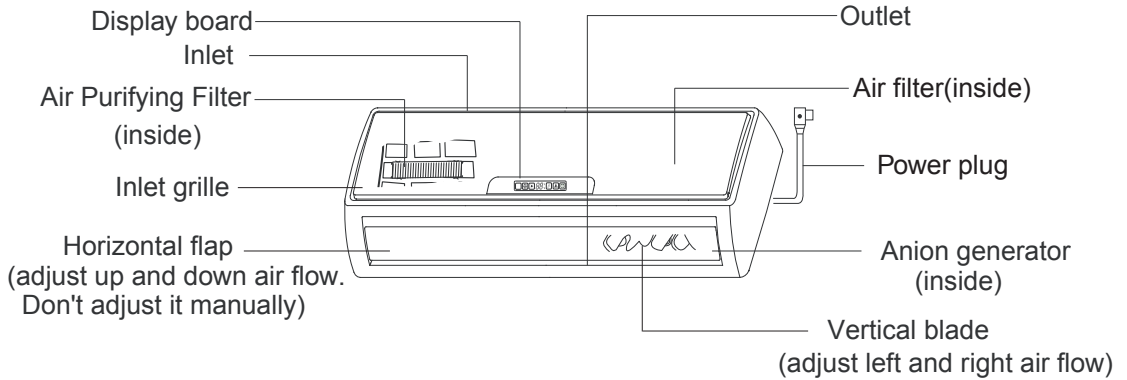
1. Applicable ambient temperature range:

Cooling	Indoor	Maximum:D.B/W.B 32°C/23°C Minimum:D.B/W.B 18°C/14°C
	Outdoor	Maximum:D.B/W.B 43°C/26°C Minimum:D.B 18°C
Heating	Indoor	Maximum:D.B 27°C Minimum:D.B 15°C
	Outdoor	Maximum:D.B/W.B 24°C/18°C Minimum:D.B/W.B -7°C/-8°C

2. If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person.
3. If the fuse of indoor unit on PC board is broken, please change it with the type of T. 3.15A/ 250V.
4. The wiring method should be in line with the local wiring standard.
5. After installation, the power plug should be easily reached.
6. The waste battery should be disposed properly.
7. The appliance is not intended for use by young children or infirm persons without supervision.
8. Young children should be supervised to ensure that they do not play with the appliance.
9. Please employ the proper power plug, which fit into the power supply cord.
10. The power plug and connecting cable must have acquired the local attestation.
11. In order to protect the units, please turn off the A/C first, and at least 30 seconds later, cutting off the power.

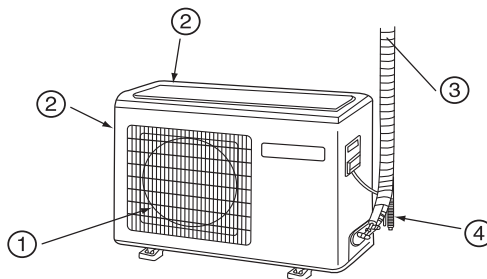
# Parts and Functions

## Indoor Unit



Actual inlet grille may vary from the one shown in the manual according to the product purchased

## Outdoor Unit



HSU-09HEA03/(BP)

HSU-12HEA03/(BP)

① OUTLET

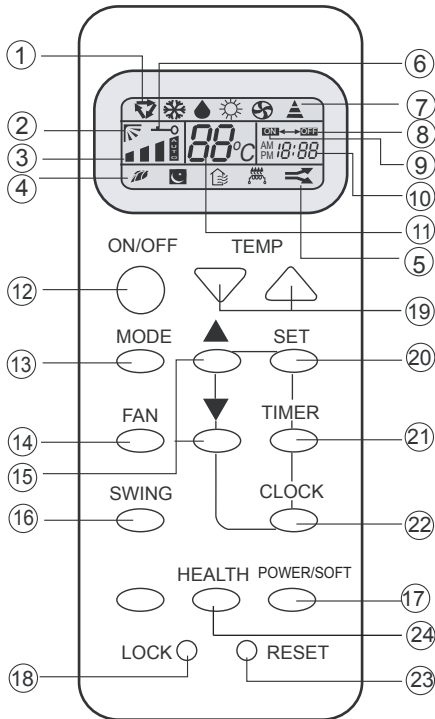
② INLET

③ CONNECTING PIPING AND ELECTRICAL WIRING

④ DRAIN HOSE

# Parts and Functions

## Remote controller



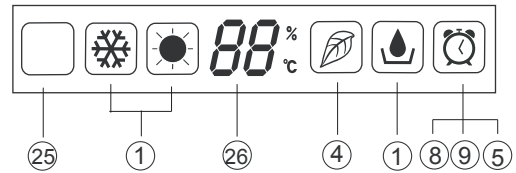
### 1. Operation mode display

Operation mode	COOL	DRY	HEAT
Remote controller			
Display board			

2. SWING display
3. FAN SPEED display
4. HEALTH display
5. POWER/SOFT display
6. LOCK display



## Display board



7. SIGNAL SENDING display
8. TIMER OFF display
9. TIMER ON display
10. CLOCK display
11. TEMP display
12. POWER ON/OFF  
Used for unit start and stop.
13. MODE  
Used to select COOL, DRY, HEAT operation
14. FAN  
Used to select fan speed AUTO, HI, MED, LO
15. HOUR  
Used to set clock and timer setting.
16. SWING  
Used to set auto fan direction.
17. POWER/SOFT button
18. LOCK  
Used to lock buttons and LCD display.
19. TEMP.  
Used to select your desired temp.
20. SET  
Used to confirm timer and clock settings.
21. TIMER  
Used to select TIMER ON, TIMER OFF,
22. CLOCK  
Used to set correct time
23. RESET  
Used to reset the controller back to normal condition.
24. HEALTH  
Used to operate the healthy function
25. Singal receiver hole
26. Ambient temp. display  
When receiving the remote control signal, display the set temperature and in the rest time the room temperature is displayed and this room temperature is only for reference.

## Clock set

When unit is started for the first time and after replacing batteries in remote controller, clock should be adjusted as follows:

Press CLOCK button, "AM" or "PM" flashes.

Press  $\Delta$  or  $\nabla$  to set correct time. Each press will increase or decrease 1min. If the button is kept depressed, time will change quickly.

After time setting is confirmed, press SET, "AM" and "PM" stop flashing, while clock starts working.

NOTE: Cooling only unit do not have displays and functions related with heating

The unit do not have functions related with healthing.

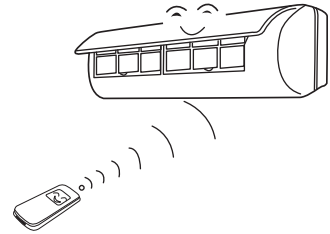
## Hints

After replacing with new batteries, remote controller will conduct self-check, displaying all information on LCD. Then, it will become normal.

# Operation

## Remote controller's operation

- When in use, put the signal transmission head directly to the receiver hole on the indoor unit.
- The distance between the signal transmission head and the receiver hole should be within 7m without any obstacle as well.
- Don't throw the controller, prevent it from being damaged.
- When electronic-started type fluorescent lamp or change-over type fluorescent lamp or wireless telephone is installed in the room, the receiver is apt to be disturbed in receiving the signals so the distance to the indoor unit should be shorter.



## Loading of the battery

Load the batteries as illustrated. 2 R-03 batteries, resetting key (cylinder)

Remove the battery cover:

Slightly press "▼" and push down the cover.

Load the battery:

Be sure that the loading is in line with the "+" "/" "-" pole request as illustrated.

Put on the cover again

Confirmation indicator:

In disorderation, reload the batteries or load the new batteries after 6mins.

Note:

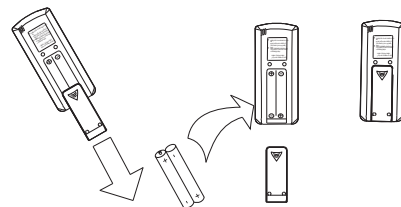
Use two new same-typed batteries when loading.

If the remote controller can't run normally or doesn't work at all, use a sharp pointed item to press the reset key.

Hint:

Remove the batteries in case unit won't be in usage for a long period.

If there are any display after taking-out just need to press reset key.



# Operation

## Cool Operation



26°C

### (1) Unit start

Press ON/OFF button, unit starts.

Previous operation status appears on display. (Not Timer setting)

### (2) Select operation mode

Press MODE button. For each press, operation mode changes as follows:



Unit will run in operation mode displayed on LCD.

Stop display at your desired mode.

### (3) Select temp. setting

Press TEMP button.

△ Every time the button is pressed, temp. setting increases 1°C

▽ Every time the button is pressed, temp. setting decreases 1°C

Unit will start running to reach the temp. setting on LCD.

### (4) Fan speed selection

Press FAN button. For each press, fan speed changes as follows:

Remote controller:

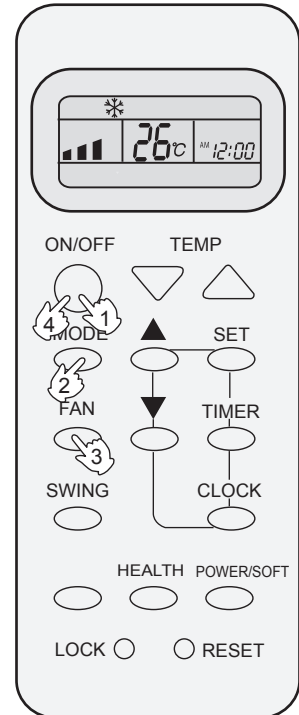


Air conditioner is running under displayed fan speed.

Air conditioner is running under displayed fan speed.

### (5) Unit stop

Press ON/OFF button, the unit stops.



## Hints

On cooling only unit, heating mode is not available.

Remote controller can memorize each operation status. When starting it next time, just press ON/OFF button and unit will run in previous status.

No reelecting is needed.(TIMER ON/OFF、SWING needs reelecting)

# Operation

## Heat Operation



### (1) Unit start

Press ON/OFF button, unit starts.

Previous operation status appears on display. (Not Timer setting)

### (2) Select operation mode

Press MODE button. For each press, operation mode changes as follows:



Unit will run in operation mode displayed on LCD.

Stop display at your desired mode.

### (3) Select temp. setting

Press TEMP button.

△ Every time the button is pressed, temp. setting increases 1°C

▽ Every time the button is pressed, temp. setting decreases 1°C

Unit will start running to reach the temp. setting on LCD.

### (4) Fan speed selection

Press FAN button. For each press, fan speed changes as follows:

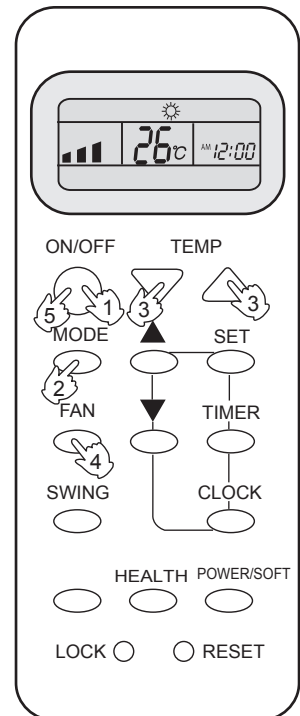
Remote controller:



IN HEAT mode, warm air will blow out after a short period of the time due to cold-draft prevention function.

### (5) Unit stop

Press ON/OFF button, the unit stops.



## Hints

Remote controller can memorize each operation status. When starting it next time, just press ON/OFF button and unit will run in previous status.



# Operation

Dry Operation

26°C



## (1) Unit start

Press ON/OFF button, unit starts.

## (2) Select operation mode

Press MODE button. For each press, operation mode changes as follows:



Unit will run in operation mode displayed on LCD.  
Stop display at your desired mode.

## (3) Select temp. setting

Press TEMP button.

- △ Every time the button is pressed, temp. setting increases 1°C
  - ▽ Every time the button is pressed, temp. setting decreases 1°C
- Unit will start running to reach the temp. setting on LCD.

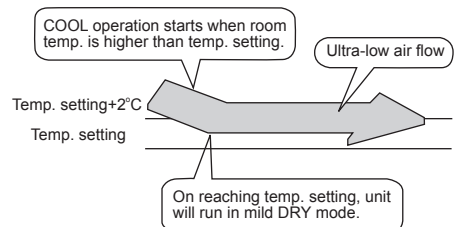
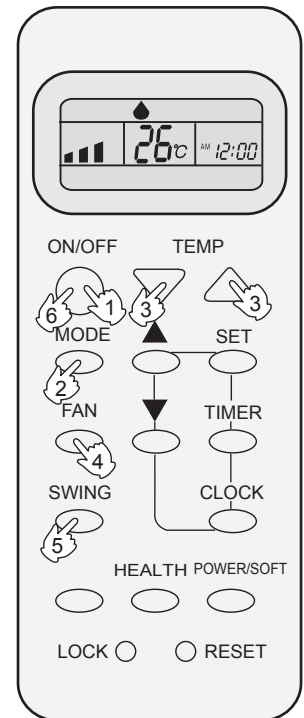
## (4) Fan speed selection

Press FAN button. For each press, fan speed changes as follows:



Unit runs at the speed displayed on LCD.

In DRY mode, when room temperature becomes lower than temp.setting+2°C, unit will run intermittently at LOW speed regardless of FAN setting.



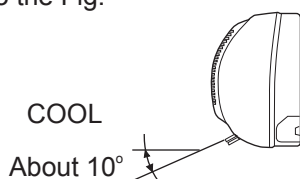
## Hints

Remote controller can memorize each operation status. When starting it next time, just press ON/OFF button and unit will run in previous status.

# Operation

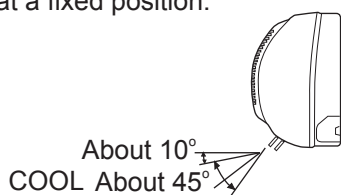
## (5) Air flow direction adjustment

After operation mode is selected, horizontal flap will open automatically according to the mode. Referring to the Fig.



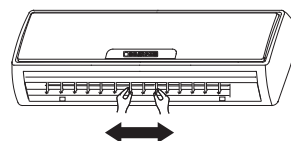
### Up and down (Use remote controller)

Press SWING button, horizontal flap will move within the range shown in the Fig. Press SWING button stop it at a fixed position.



### Left and right air flow adjustment (manual)

Move the vertical blade by a knob on air conditioner to adjust left and right direction referring to Fig.



#### Cautions:

It is advisable not to keep horizontal flap at downward position for a long time in COOL or DRY mode, otherwise, condensate water might occur.

#### Cautions:

When humidity is high, condensate water might occur at air outlet if all vertical louvers are adjusted to left or right.

## (6) Unit stop

Press ON/OFF button.

Only time remains on LCD.

All indicators on indoor unit go out.

Horizontal flap closes automatically.

#### Cautions:

Unit won't restart until 3 minutes have elapsed, due to system protection.

#### Hints

As cold air flows downward in COOL mode, adjusting air flow horizontally will be much more helpful for a better air circulation.

Be careful not to catch a cold when cold air blows downward.

It is harmful to your health in summer to go frequently in and out of places where temp. difference is above 7°C. Temp. difference of 3-5°C will remove your fatigue.

More than this, unit's load can be reduced and power consumption cut down as well. So, you'd better set a temp. difference of 3-5°C between indoor and outdoor temp. in COOL mode.

# Operation

## TIMER Operation



26 °C



Set Clock correctly before starting Timer operation

You can let unit start or stop automatically at following times: Before you wake up in the morning, or get back from outside or after you fall asleep at night.

## TIMER ON/OFF

(1) After unit start, select your desired operation mode.

Operation mode will be displayed on LCD.

Power indicator on indoor unit lights up.

(2) TIMER mode selection

Press TIMER button to change TIMER mode.

Every time the button is pressed, display changes as follows:



Select your desired TIMER mode (TIMER ON or TIMER OFF) ON or OFF will flash.

(3) Timer setting

Press HOUR  $\Delta$  /  $\nabla$  button.

$\Delta$  Every time the button is pressed, time increases 1 hour.

If button is kept depressed, time will change quickly.

$\nabla$  Every time the button is pressed, time decreases 1 hour.

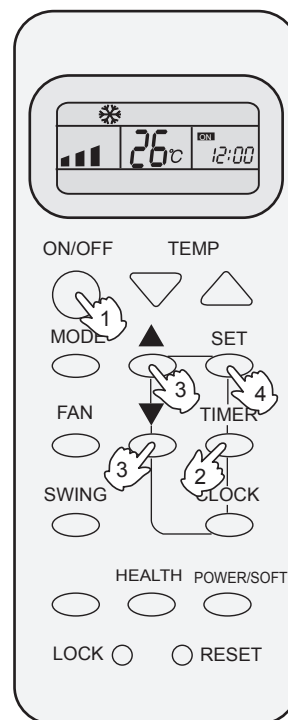
If button is kept depressed, time will change quickly. Time will be shown on LCD. It can be adjusted within 24 hours.

(4) Confirming your setting

After setting correct time, press SET button to confirm, "ON" or "OFF" stops flashing

Time displayed: Unit starts or stops at x hour . (TIMER ON or TIMER OFF).

Timer mode indicator on indoor unit lights up.



## To cancel TIMER mode

Just press TIMER button several times until TIMER mode disappears.

### Hints

After replacing batteries or a power failure happens, Time setting should be reset.

Remote controller possesses memory function, when use TIMER mode next time, just press SET button after mode selecting if timer setting is the same as previous one.

# Operation

## POWER/SOFT Operation

### POWER Operation

When you need rapid heating or cooling, you can use this function.

Selecting of POWER operation

Press POWER/SOFT button. Every time the button is pressed, display changes as follows:



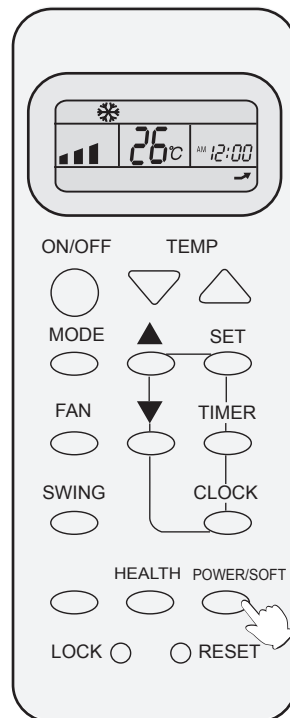
Stop the display at "  ".

In POWER operation status:

In COOL mode, fan speed automatically runs in HI mode for 15 min then returns to original status setting.

To cancel POWER operation

Press POWER/SOFT button twice ,POWER/SOFT disappears.



### SOFT Operation

You can use this function when silence is needed for rest or reading.

Selecting of SOFT operation

Press POWER/SOFT button. Every time the button is pressed, display changes as follows:



Stop the display at "  ".

In SOFT operation mode, fan speed automatically takes "LOW"

To cancel POWER operation

Press POWER/SOFT button twice ,POWER/SOFT disappears.

Hints:

During POWER operation, in rapid COOL mode, the room will show inhomogeneous temperature distribution.

Long period SOFT operation will cause effect of not too cool.

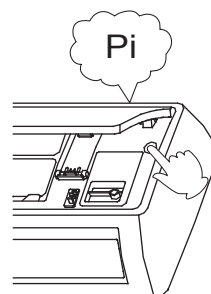
# Operation

## Emergency operation and test operation

### Emergency Operation:

- Carry out this operation only when the remote controller is defective or lost.
- When the emergency operation switch is pressed, a "Pi" sound starts once, which means the start of this operation.
- In this operation, it is not possible to change the settings of temperature and air flow speed, it is also impossible to do an operation by the timer.
- Follow the requirements below.

Room temperature	Designated temperature	Timer mode	Air flow speed	Operation mode
More than 23°C	26°C	CONTINUOUS	AUTO	COOL
Less than 23°C	23°C	CONTINUOUS	AUTO	HEAT



If an air conditioner is a model for both cooling and heating.

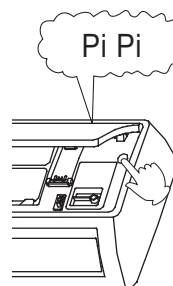
Cooling when the room temperature at the start of operation is above 23°C.

Heating when the room temperature at the start of operation is below 23°C

### Test operation:

- Use this switch in the test operation when the room temperature is less 16°C, do not use it in the normal operation.

Continue to press the test operation switch for more than 5 seconds. After you hear the "Pi" sound twice, release your finger from the switch, the cooling operation starts with the air flow speed setting "Hi".



### Removal of the restriction of emergency or test operation:

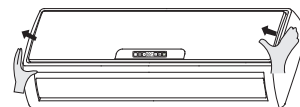
- Press once more the emergency operation switch, or manipulate through the remote controller, a "Pi" sound causes the restriction of emergency or test operation to be removed.
- When the remote controller is manipulated for the removal, then the selected operation by the remote controller.

# Maintenance

## Replacement of Air Purifying Filter

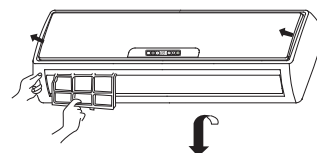
### 1. Open the Inlet Grille

Prop up the inlet grille by using a small device named grille-support which located in the right side of the indoor unit.



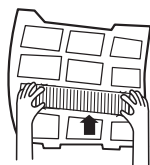
### 2. Detach the standard air filter

Slide the knob slightly upward to release the filter, then withdraw it.

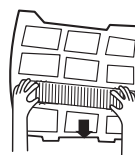


### 3. Attach Air Purifying Filter

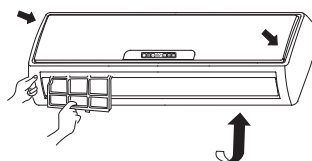
Put air purifying filter appliances into the right and left filter frames.



Detach old Air Purifying Filter



### 4. Attach the standard air filter (Necessary installation)



#### ATTENTION:

The white side of the photocatalyst air purifying filter face outside, and the black side face the unit.

The green side of the bacteria-killing medium air purifying filter face outside, and the white side face the unit.

### 5. Close the Inlet Grille

Close the Grille surely

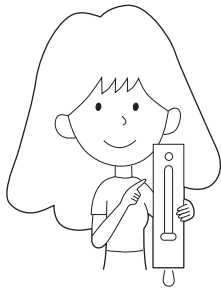
#### NOTE:

- The photocatalyst air purifying filter will be solarized in fixed time. In normal family, it will be solarized every 6 months.
- The bacteria-killing medium air purifying filter will be used for a long time, no need for replacement. But in the period of using them, you should remove the dust frequently by using vacuum cleaner or flapping them lightly, otherwise, its performance will be affected.
- Please keep the bacteria-killing medium air purifying filter in the cool and dry conditions avoid long time directly sunshine when you stop using it, or its ability of sterilization will be reduced.

# Maintenance

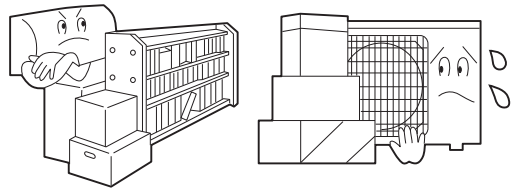
## For Smart Use of The Air Conditioner

Setting of proper room temperature

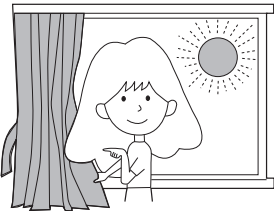


Proper temperature

Do not block the air inlet or outlet

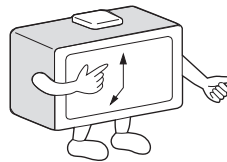
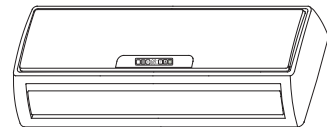


Close doors and windows during operation

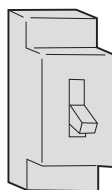


During cooling operation prevent the penetration of direct sunlight with curtain or blind

Use the timer effectively



If the unit is not to be used for a long time, turn off the power supply main switch.



OFF

Use the louvers effectively



# Cautions

## Safety Instruction

- Please read the following Safety Instructions carefully prior to use.
- The instructions are classified into two levels, WARNING and CAUTION according to the seriousness of possible risks and damages as follows. Compliance to the instructions are strictly required for safety use.

## Installation

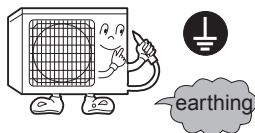
### ⚠ WARNING

Please call Sales/Service Shop for the Installation.  
Do not attempt to install the air conditioner by yourself because improper works may cause electric shock, fire, water leakage.

Installation in a inadequate place may cause accidents. Do not install in the following place.

### ⚠ CAUTION

Connect the earth cable.



Do not install in the place where there is any possibility of inflammable gas leakage around the unit.



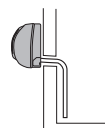
PROHIBITION

Do not get the unit exposed to vapor or oil steam.



PROHIBITION

Check proper installation of the drainage securely

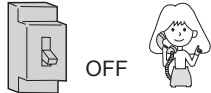
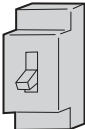


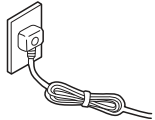
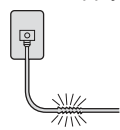



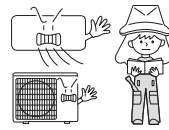


STRICT ENFORCEMENT


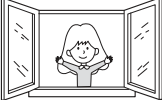
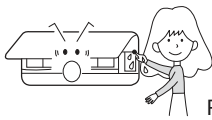
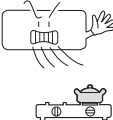
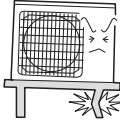
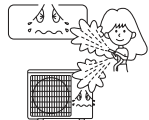
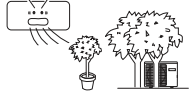




# Cautions

## ⚠ WARNING






<p>When abnormality such as burnt-smell found, immediately stop the operation button and contact sales shop.</p>  <p>OFF</p>		<p>Use an exclusive power source with a circuit breaker</p> 			
<p>Connect power supply cord to the outlet completely</p>  <p>STRICT ENFORCEMENT</p>		<p>Use the proper voltage</p>  <p>STRICT ENFORCEMENT</p>		<p>Do not use power supply cord extended or connected in halfway</p> <p>PROHIBITION</p>	
<p>Do not use power supply cord in a bundle.</p>  <p>PROHIBITION</p>		<p>Take care not to damage the power supply cord.</p>  <p>PROHIBITION</p>		<p>Do not insert objects into the air inlet or outlet.</p>  <p>PROHIBITION</p>	
<p>Do not start or stop the operation by disconnecting the power supply cord and so on.</p>  <p>PROHIBITION</p>		<p>Do not channel the air flow directly at people, especially at infants or the aged.</p>  <p>PROHIBITION</p>		<p>Do not try to repair or reconstruct by yourself.</p> 	

## ⚠ CAUTION

<p>Do not use for the purpose of storage of food, art work, precise equipment, breeding, or cultivation.</p>  <p>PROHIBITION</p>		<p>Take fresh air occasionally especially when gas appliance is running at the same time.</p>  <p>STRICT ENFORCEMENT</p>		<p>Do not operate the switch with wet hand.</p>  <p>PROHIBITION</p>	
<p>Do not install the unit near a fireplace or other heating apparatus.</p>  <p>PROHIBITION</p>		<p>Check good condition of the installation stand</p>  <p>PROHIBITION</p>		<p>Do not pour water onto the unit for cleaning.</p>  <p>PROHIBITION</p>	
<p>Do not place animals or plants in the direct path of the air flow</p>  <p>PROHIBITION</p>		<p>Do not place any objects on or climb on the unit.</p>  <p>PROHIBITION</p>		<p>Do not place flower vase or water containers on the top of the unit.</p>  <p>PROHIBITION</p>	

# Trouble shooting

Before asking for service, check the following first.

	Phenomenon	Cause or check points
Normal Performance inspection	<p>The system does not restart immediately.</p> 	<ul style="list-style-type: none"> <li>• When unit is stopped, it won't restart immediately until 3 minutes have elapsed to protect the system.</li> <li>• When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.</li> </ul>
	<p>Noise is heard</p> 	<ul style="list-style-type: none"> <li>• During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.)</li> <li>• During unit operation, a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes</li> <li>• Should there be a big noise from air flow in unit operation, air filter may be too dirty.</li> </ul>
	<p>Smells are generated.</p>	<ul style="list-style-type: none"> <li>• This is because the system circulates smells from the interior air such as the smell of furniture, cigarettes.</li> </ul>
	<p>Mist or steam are blown out.</p> 	<ul style="list-style-type: none"> <li>• During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.</li> </ul>
Multiple check	<p>Does not work at all.</p> 	<ul style="list-style-type: none"> <li>• Is power plug inserted?</li> <li>• Is there a power failure?</li> <li>• Is fuse blown out?</li> </ul>
	<p>Poor cooling</p> 	<ul style="list-style-type: none"> <li>• Is the air filter dirty? Normally it should be cleaned every 15 days.</li> <li>• Are there any obstacles before inlet and outlet?</li> <li>• Is temperature set correctly?</li> <li>• Are there some doors or windows left open?</li> <li>• Is there any direct sunlight through the window during the cooling operation?(Use curtain)</li> <li>• Are there too much heat sources or too many people in the room during cooling operation?</li> </ul>

Application temp. range of air conditioner -7°C~43°C.