

## **ROOM AIR CONDITIONER WALL MOUNTED TYPE**

### **Indoor Unit**

**HSE-7C / HSE-7R**

**HSE-9C / HSE-9R**

**HSE-12C / HSE-12R**

**HSE-16C / HSE-16R**

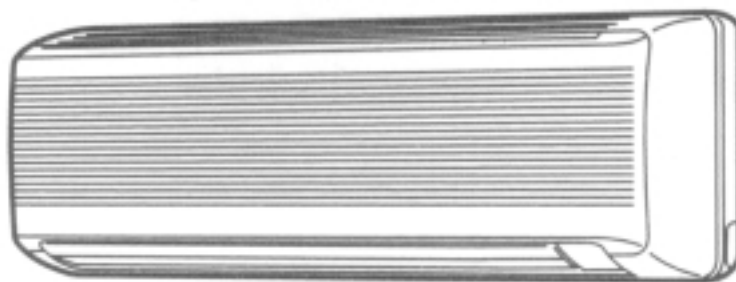
**HSE-17C / HSE-17R**

**HSE-20C / HSE-20R**

**HME-9C2 / HME-9R2**

**HME-127C3**

**HME-127C4**



English

### **Outdoor Unit**

**HOE-7C / HOE-7R**

**HOE-9C / HOE-9R**

**HOE-12C / HOE-12R**

**HOE-16C / HOE-16R**

**HOE-17C / HOE-17R**

**HOE-20C / HOE-20R**

**HOME-18C2 / HOME-18R2**

**HOME-24C3**

**HOME-24C4**

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## SAFETY INSTRUCTIONS

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- Please read the following Safety Instructions carefully prior to use.

### Safety instructions and symbols explanation

- The Instructions are classified into WARNING and CAUTION according to the seriousness of the possible risks and damages.
- Compliance to the Instructions is strictly required for safe use.

⚠ This symbol is used with two different meanings as follows.



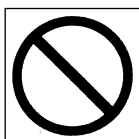
**WARNING!** indicates actions which, if not performed in the proper way, may cause serious harm to people.



**CAUTION!** indicates actions and procedures which, if not performed in the proper way, may cause harm to people and damages to the unit and things.



Safety symbol which is usually used to indicate WARNING or CAUTION.



Safety symbol which indicates prohibited operations.



Symbol which indicates particular actions to be necessarily performed by the user.

# WARNING

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**Please call Sales/Service Points for installation.**

Do not attempt to install the air conditioner by yourself because improper actions may cause electric shock, fire, water leakage.



**Connect the “earth” cable.**

**PROHIBITION**

Do not install the air conditioner in places where there might be inflammable gas leakages around the unit.



**PROHIBITION**

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



**STRICT ENFORCEMENT**

Check for proper installation of drainage hose.



**Please call Sales/Service Points for repairs.**

Do not attempt to repair the air conditioner by yourself because improper actions may cause electric shock, fire, water leakage.



**Please call Sales/Service Points for relocation.**

Do not attempt to relocate the air conditioner by yourself because improper actions may cause electric shock, fire, water leakage.



# WARNING

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When abnormalities are observed, such as burning smell, stop the unit immediately. Cut off the power supply by turning the power switch in the OFF position.

**STRICT ENFORCEMENT**



Connect the power supply cord to the outlet completely.

**STRICT ENFORCEMENT**



Use 220V-230V voltage.

**STRICT ENFORCEMENT**



Do not power supply cord extended or connected at halfway.

**PROHIBITION**



Do not use the power supply cord in a bundle.

**PROHIBITION**



Take care not to damage the power supply cord.

**PROHIBITION**



Do not insert any objects into the air inlet or outlet.

**PROHIBITION**



Do not stop or start unit operation by disconnecting or connecting the power supply cord.

**PROHIBITION**



Do not channel the airflow directly at people, especially infants and old people.

**PROHIBITION**



Do not try to repair or reconstruct the air conditioner by yourself.

**PROHIBITION**












Do not stop or start the air conditioner by pulling out or in the plug of the power supply cord.

**PROHIBITION**



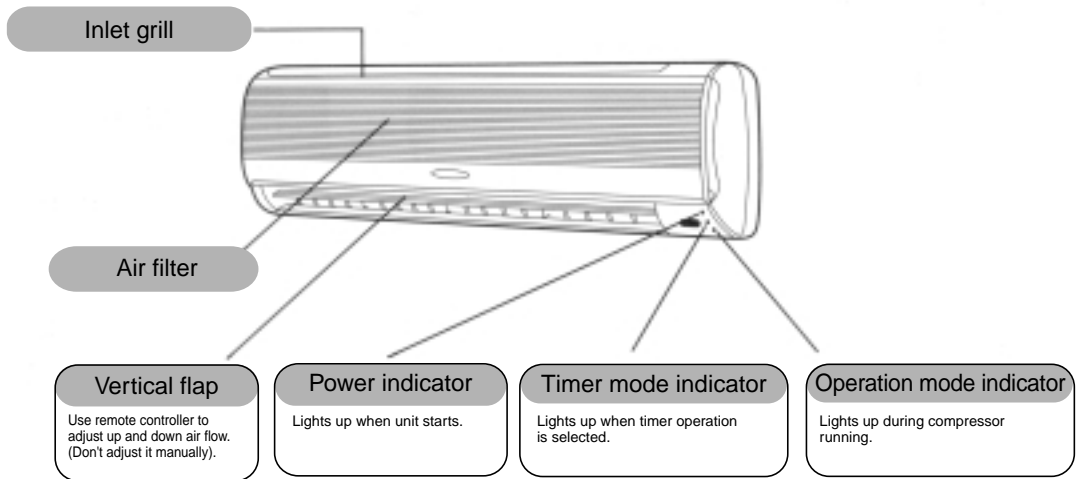
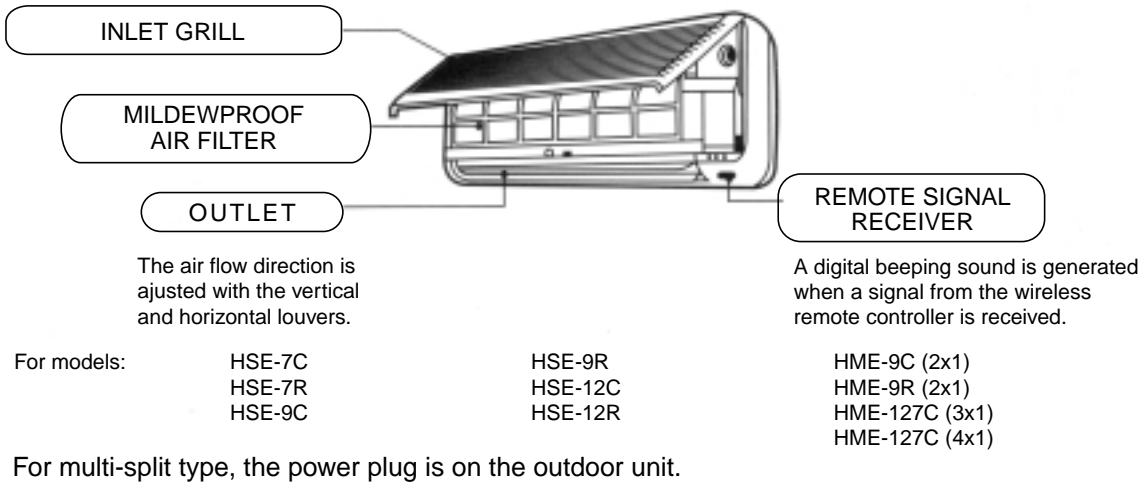
# CAUTION

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Do not use the air conditioner to store food, art work and precise equipment, to breed animals and grow plants.	PROHIBITION	
Let fresh air into the room from time to time, especially if a gas appliance is running at the same time.	STRICT ENFORCEMENT	
Do not operate the power switch with wet hands.	PROHIBITION	
Do not install the unit near a fireplace or any other heating devices.	PROHIBITION	
Check for good conditions of the unit installation stand.	PROHIBITION	
Do not pour water onto the unit for cleaning.	PROHIBITION	
Do not place animals or plants directly in the airflow.	PROHIBITION	
Do not place any objects on the unit and do not climb on it.	PROHIBITION	
Do not place flower vases or water containers on the top of the unit.	PROHIBITION	

# PARTS AND FUNCTIONS

## INDOOR UNIT

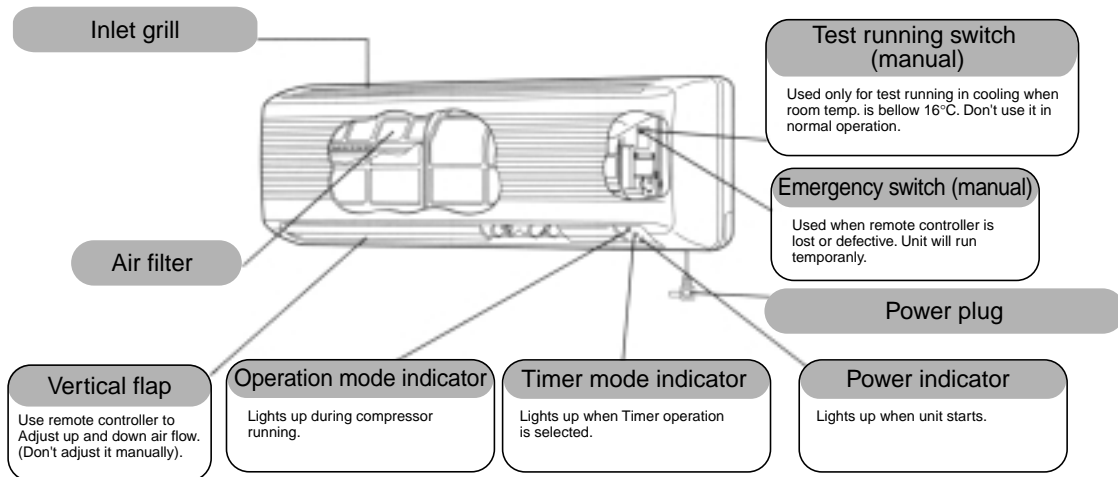


For models:

HSE-16C	HSE-17C	HSE-20C
HSE-16R	HSE-17R	HSE-20R

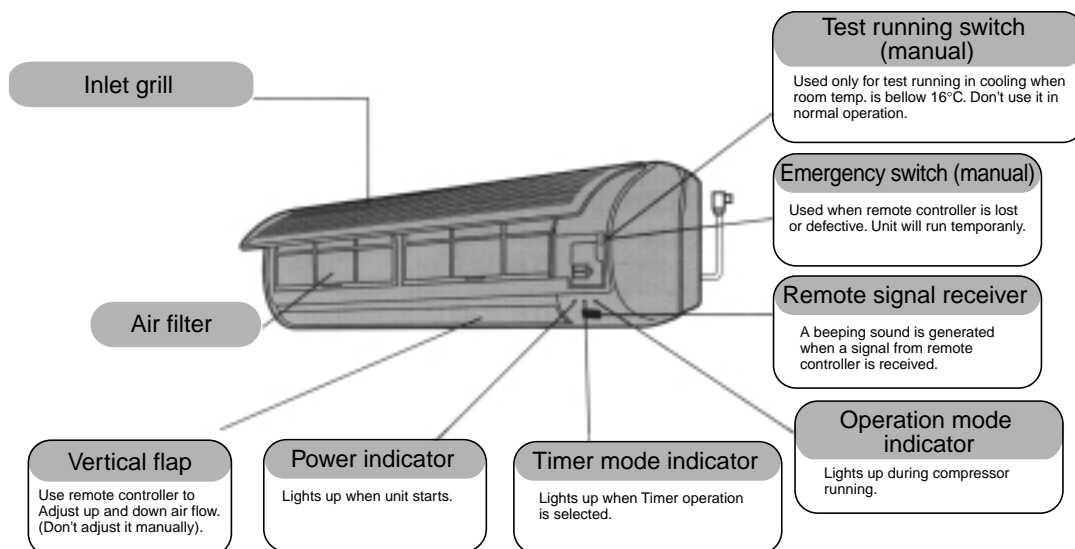
# PARTS AND FUNCTIONS

## INDOOR UNIT



For models: HSE-12C

HSE-12R



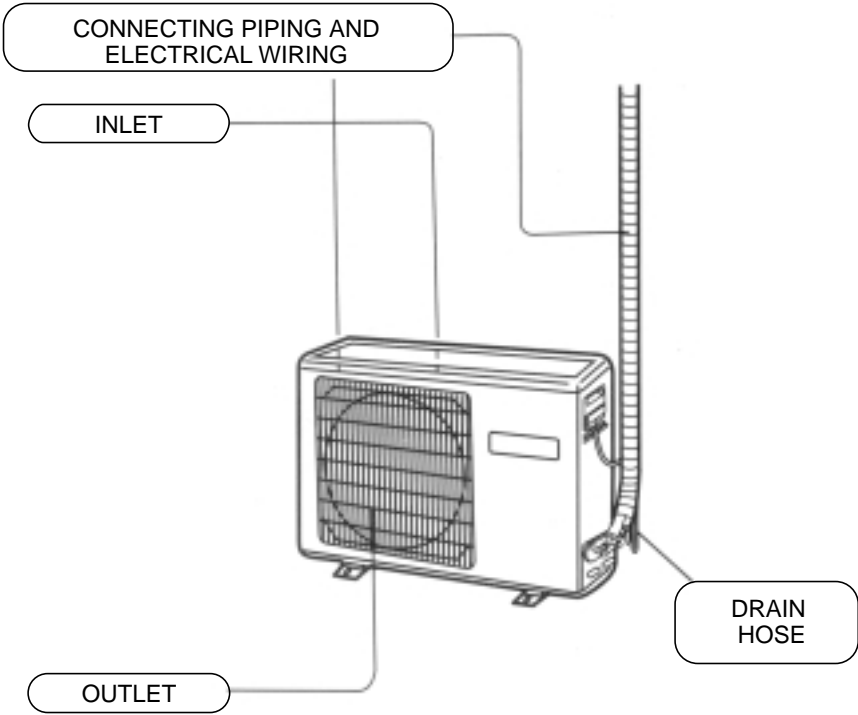
For models: HSE-7C  
HSE-7R

HSE-9C  
HSE-9R

For multi-split type, the power plug is on the outdoor unit.

# PARTS AND FUNCTIONS

OUTDOOR UNIT



For models:

HSE-7C	HSE-7R
HSE-9C	HSE-9R
HSE-12C	HSE-12R

\*Warm air comes out when cooling,  
cool air comes out when heating.

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.	43°C
		Minimum: D.B.	15°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

D.B = Dry Bulb  
W.B= Wet Bulb

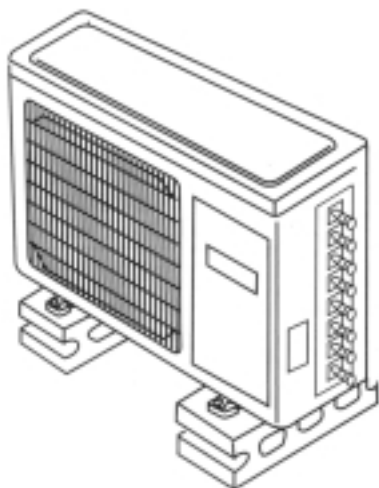
- 2.If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person. The type of connecting wire is H05RN-F or HO7RN-F.
- 3.If the fuse on PC board is broken please change it with the type of 50F.3.15A/250V. (for series 16,17,20) or 50F.2.5A/250V (for series 07,09,12).
- 4.The distance between the indoor unit and the floor should be more than 1.8m.
- 5.The wiring method should be in line with the local wiring standard.
- 6.After installation, the power plug should be easily reached.
- 7.The waste battery should be disposed properly.
- 8.The appliance is not intended for use by young children or infirm persons without supervision.
- 9.Young children be supervised to ensure that they do not play with the appliance.



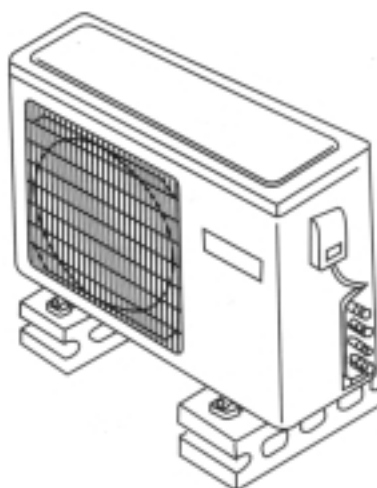
# PARTS AND FUNCTIONS

## OUTDOOR UNIT

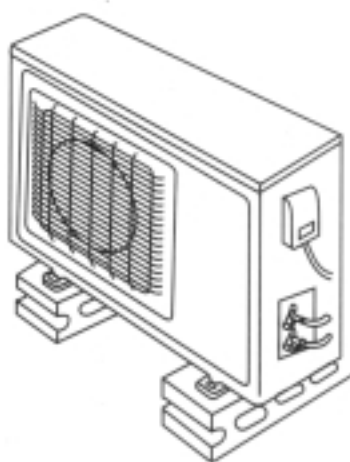
For models:  
Multi Split Type 3 indoor units (cooling)



For models:  
Multi Split Type 4 indoor units (cooling)



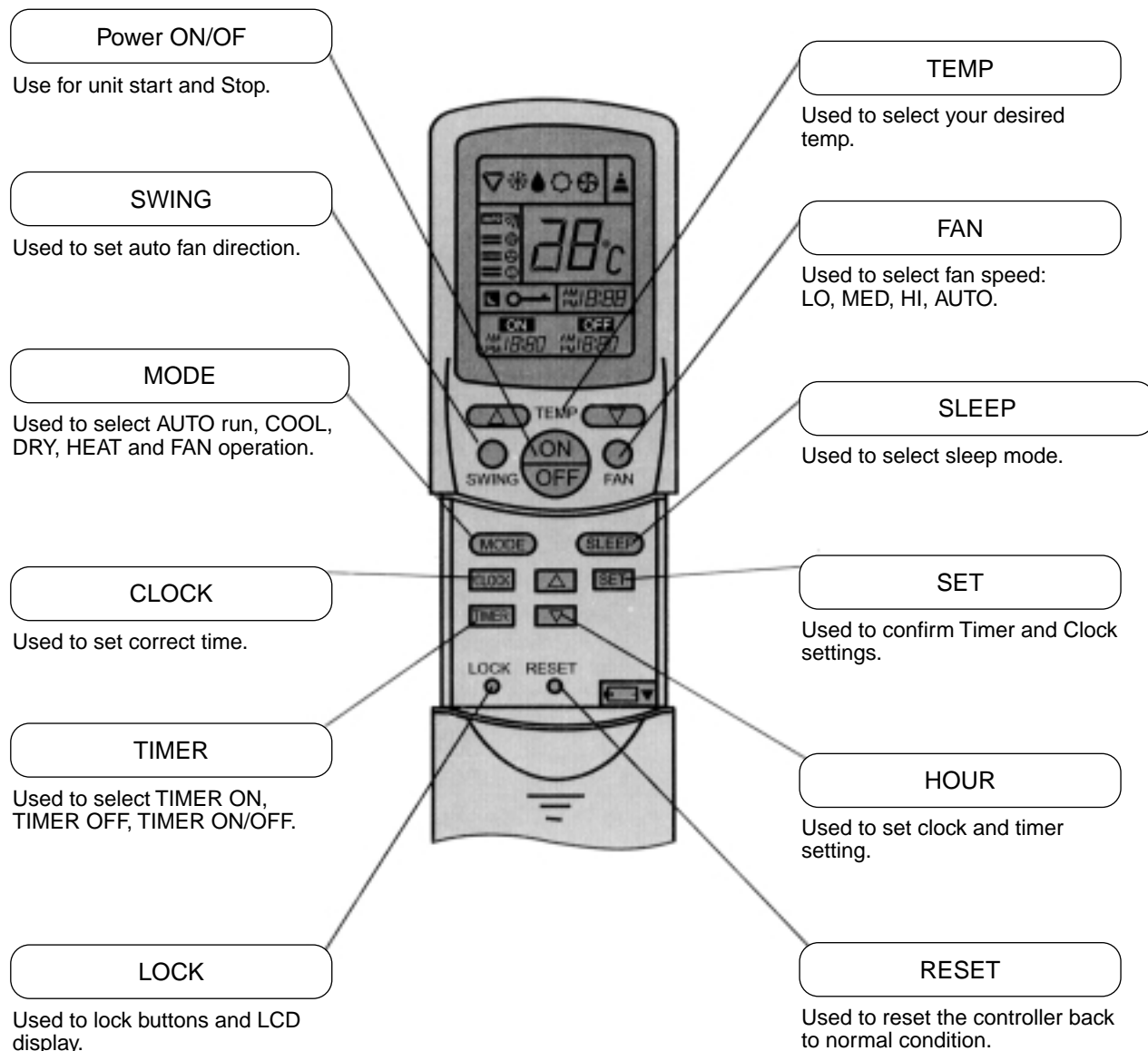
For models:  
16-17-20.000 BTU



# PARTS AND FUNCTIONS

## OPERATION

### Buttons and display of the remote controller



### Cautions

On cooling unit heating mode is not available.  
After replacing batteries, press ON/OFF, and display becomes as follows:  
Operation mode: AUTO, Temp.No  
Timer mode: No, Fan speed: AUTO

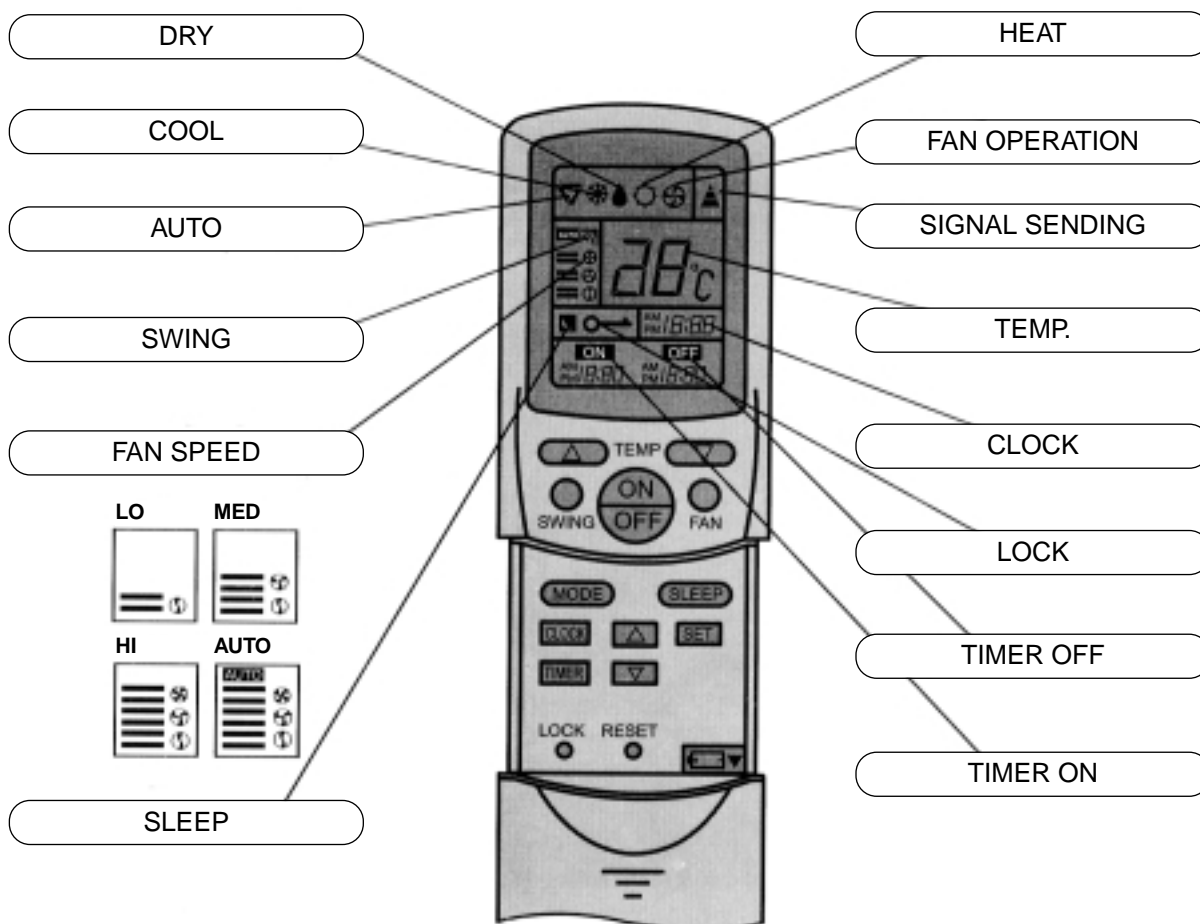
### Note

The above information is the explanation of the displayed information therefore varies with those displayed in actual operation.

# PARTS AND FUNCTIONS

## OPERATION

### Buttons and display of the remote controller



## CLOCK SET

When unit is started the first time and after replacing batteries in remote controller, clock should be adjusted as follows:  
Press CLOCK button, "AM" or "PM" flashes.  
Press ▲ or ▼ to set correct time. Each press will increase or decrease 1 min. 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.

### 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 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 5 min.

### 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

## AUTO RUN, FAN OPERATION

Enjoy yourself by just a gentle press

### (1) Unit start

Press ON/OFF button, unit starts.

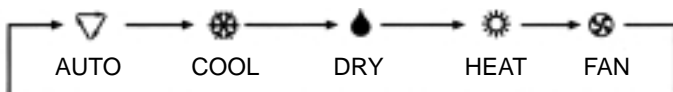
Previous operation status appears on display.

(Not Timer setting)

Power indicator on indoor unit lights up.

### (2) Select operation mode

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



Unit will run in selected mode.

Stop display at "▽" AUTO or "⊗" FAN.

### (3) FAN

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



Unit will run at selected fan speed.

Note: AUTO is not available in FAN mode.

Adjust air flow direction if necessary, referring to page 11.

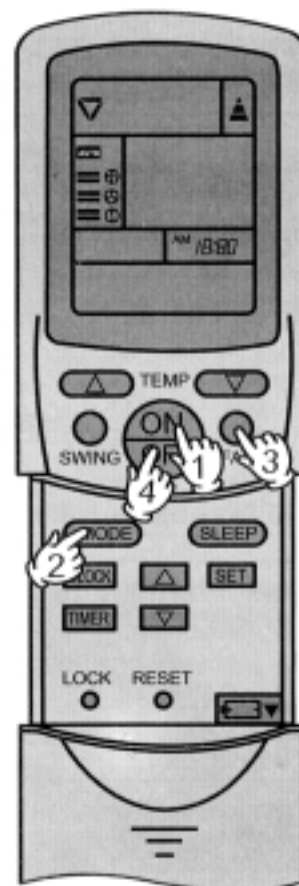
### (4) Unit stop

Press ON/OFF button.

Only time remains on LCD.

All indicators on indoor unit go out.

Vertical flap closed automatically.



### Hints

Remote controller can memorize settings in each operation mode. To run it next time just select the operation mode and it will start with the previous setting.

No reselecting is needed. (TIMER ON/OFF needs reselecting)

# OPERATION

## COOL, HEAT and DRY operation

### Recommendations

- Use COOL in summer.
- Use HEAT in winter.
- Use DRY in spring, autumn and in damp climate.

#### (1) Unit start

Press ON/OFF button, unit starts.

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

Power indicator on indoor unit lights up.

#### (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.

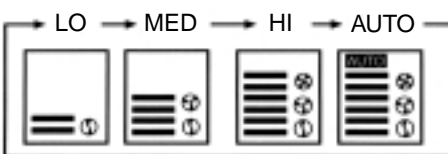
#### (3) Select temp. setting

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

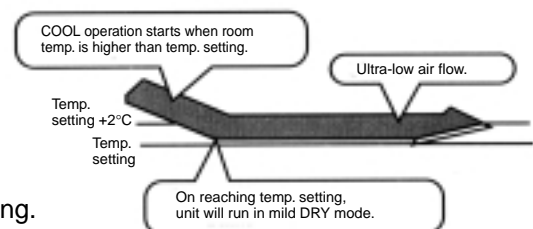
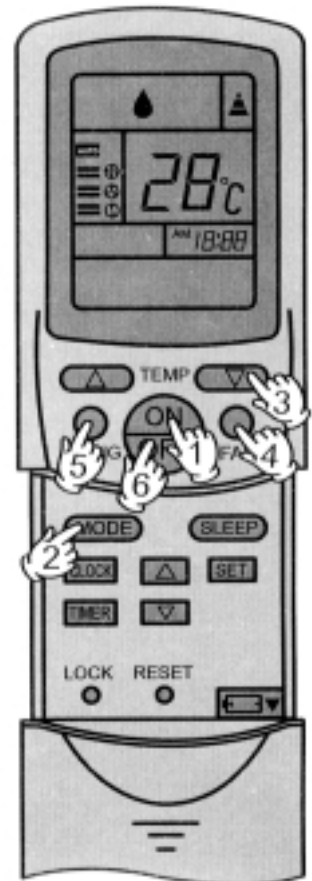
Press FAN button. For each press, fan speed changes as follows:



Unit runs at the speed displayed on LCD.

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

In DRY mode, when room temp. becomes 2°C higher than temp. setting, unit will run intermittently at LO 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.

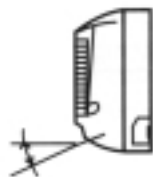
# OPERATION

## (5) Air flow direction adjustment

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

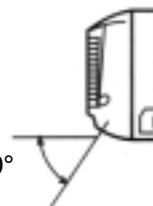
COOL

About 10°



HEAT

About 60°



### Up and down (Use remote controller)

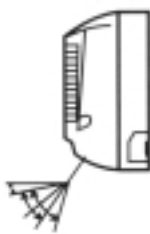
Press SWING button, vertical flap will move within the range shown in the Fig. Press SWING button stop it at a fixed position.

COOL  
HEAT

About 10°

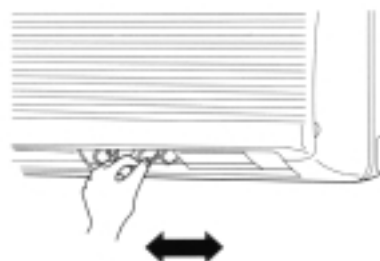
About 45°

About 60°



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

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



#### Cautions

It is advisable not to keep vertical 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 horizontal louvers are adjusted to left or right.

## (6) Unit stop

Press ON/OFF button.  
Only time remains on LCD.  
All indicator on indoor unit go out.  
Vertical flap closes automatically.

#### Cautions

Unit won't restart until 3 minutes have elapsed, due to system protection.  
HEAT mode is not available on cooling only unit.

#### Hints

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

As warm air flows upward in HEAT mode, adjusting air flow downward 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. diff of 3-5°C between indoor and outdoor temp. in COOL mode.

# OPERATION

## Timer operation

Set clock correctly before starting Timer operation (referring to page 11)

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.

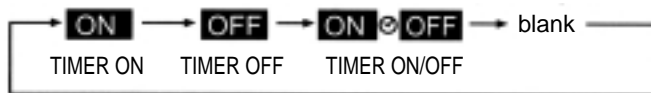
## TIMER ON/OFF

### (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 ▲ / ▼ button.

▲ Every time the button is pressed, time increases 10 min. If button is kept depressed, time will change quickly.

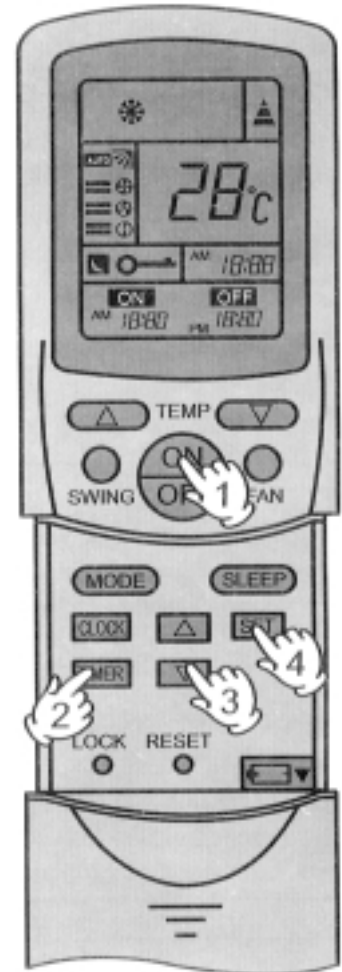
▼ Every time the button is pressed, time decreases 10 min. If button is kept depressed, time will change quickly. Time will be shown on LCD. It can be adjusted within 24 hours.

### (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 x min. (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

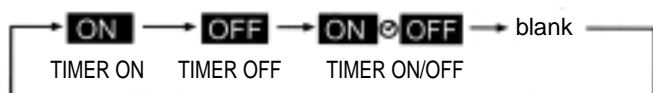
## TIMER ON-OFF

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

Operation mode will be displayed on LCD.  
Power indicator on indoor unit lights up.

### (2) Press TIMER button to change TIMER mode.

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



Select TIMER ON-OFF. "ON" will flash.

### (3) Time setting for TIMER ON

Press HOUR button.

▲ Every time the button is pressed, time increases 10 min.

If button is kept depressed, time will change quickly.

▼ Every time the button is pressed, time decreases 10 min.

If button is kept depressed, time will change quickly.

Time will be shown on LCD.

It can be adjusted within 24 hours.

AM refer's to morning and PM to afternoon.

### (4) Time confirming for TIMER ON

After time setting, press TIMER button to confirm.

"ON" stops blinking, while "OFF" start blinking.

Time displayed: Unit starts at x hour x min.

### (5) Time confirming for TIMER OFF

Follow the same procedures in "Time setting for TIMER ON".

### (6) Time setting for TIMER OFF

After time setting, press SET button to confirm, "OFF" stops flashing.

Time displayed: Unit stops at x hour x min.



## To cancel TIMER mode

- Just press TIMER button several times until TIMER mode disappears.
- According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

# MAINTENANCE

\*Different models have different appearance



## Cleaning of unit casing

Cut off power supply before cleaning wipe unit casing with soft cloth. In case of heavy stain, clean it with neutral detergent. Squeeze water in the cloth, wipe off the detergent on unit casing completely.



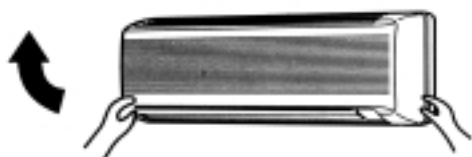
## Cleaning of remote controller



Don't use water to wash unit casing, please use dry cloth. Don't use glass cleaner or cloth soaked with chemicals.



## Cleaning of air filter



1. Open inlet by pulling it upward.

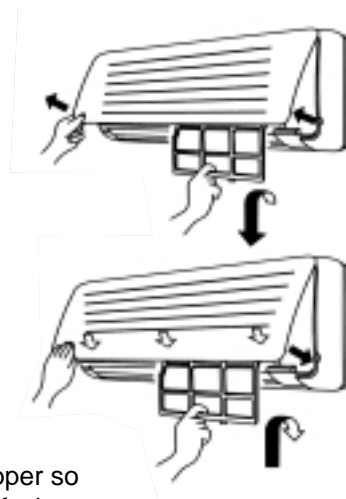
3. Clean the filter.  
Use a vacuum cleaner to remove dust, or wash the filter with water. After washing, dry the filter completely in the shade.

5. Close the inlet grill



2. Remove air filter.  
Push up the filter's center tab slightly until it is caesura of the stopper. Remove it by pulling down.

4. Attach the filter.  
Attach filter behind the stopper so that the "Front" indicator is facing to the front. Make sure that is completely behind the stopper otherwise problems might occur.



# OPERATION

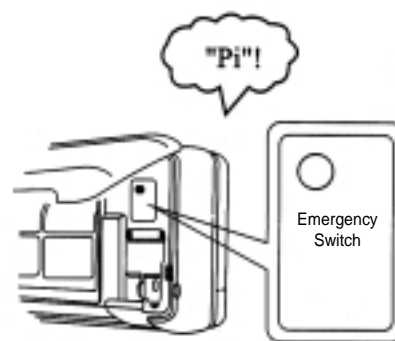
## EMERGENCY OPERATION AND TEST OPERATION

### 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 requirements below.

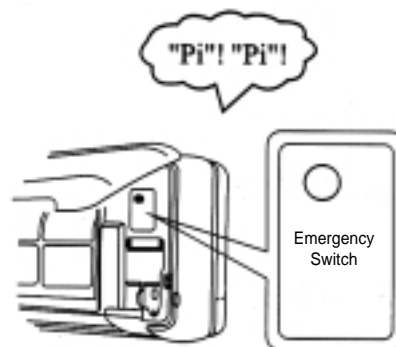
Room temperature	Designated temperature	Timer mode	Air flow speed	Operation mode
More than 23°C	26°C	CONTINUOUS	AUTO	COOL
Less than 23°C	23°C	CONTINUOUS	AUTO	HEAT

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 less 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.

# OPERATION

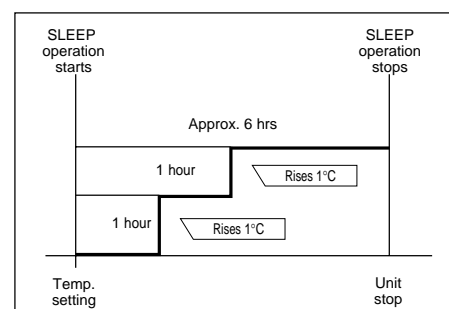
## Comfortable SLEEP

Before going to bed at night, you can simply press the SLEEP button and unit will bring you a sound sleep in selected mode.



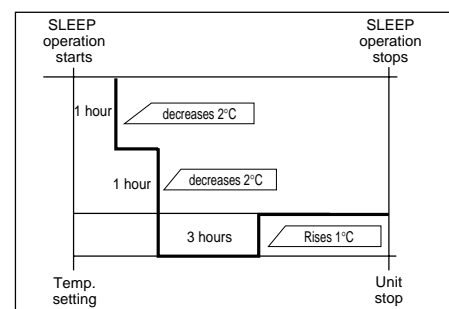
## In COOL mode

One hour after SLEEP mode starts, temp. will become 1°C higher than temp. setting. After running for another 1 hour, temp. rises by 1°C further. Until will run for 6 hours then stops automatically. Temp. is higher than temp. setting so that room temp. won't be too low for your sleep.



## In HEAT mode

One hour after SLEEP mode starts, temp. will become 2°C lower than temp. setting. After running for another 1 hour, temp. decreases by 2°C further. Until will run for 3 hours at this temp. then increases another 1°C and stops automatically 3 hours later. Temp. is lower than temp. setting so that room temp. won't be too high for your sleep.



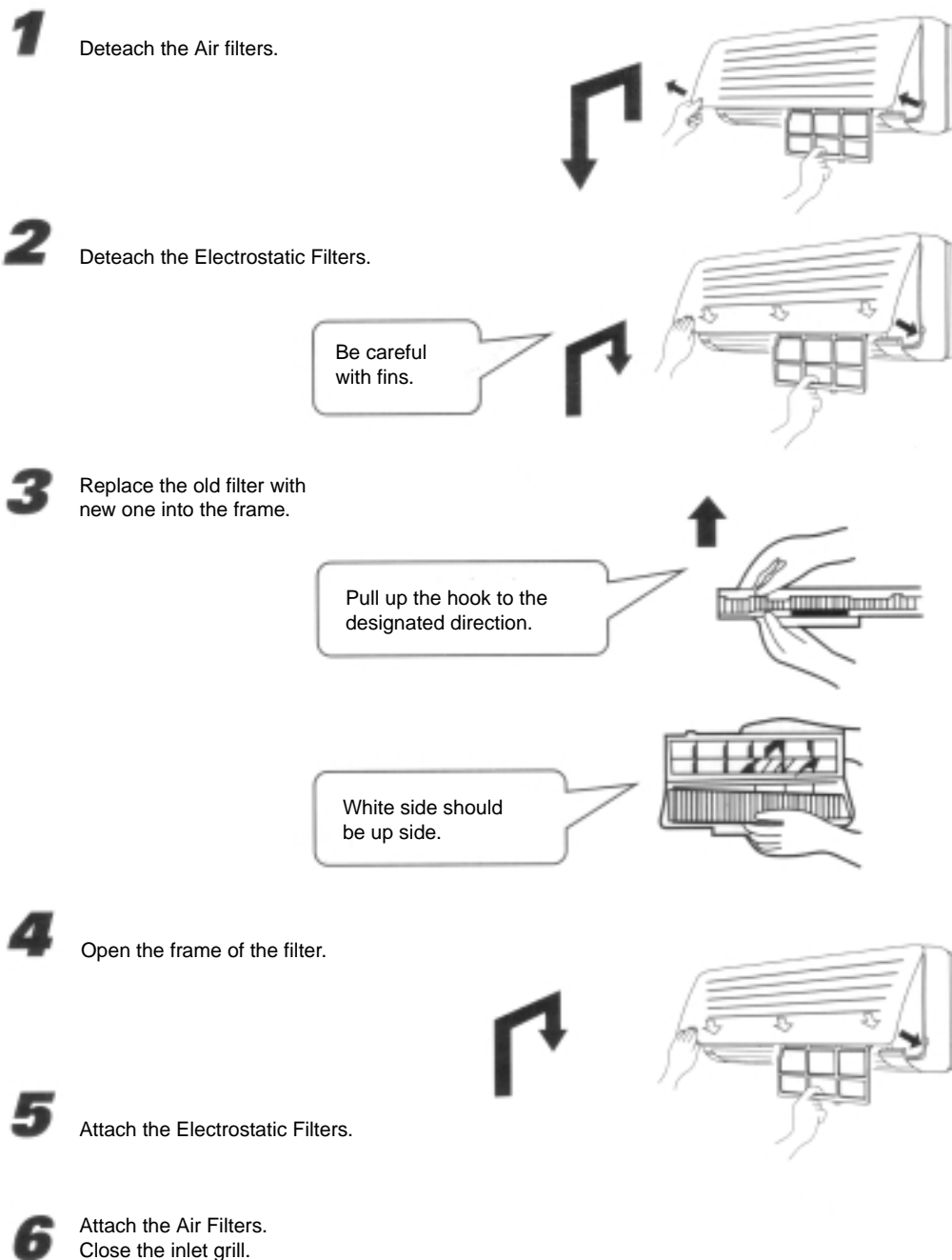
### Note:

In AUTO mode, unit will run in SLEEP function according to operation mode. In FAN mode, comfortable sleep is not available.

## Power Failure Resume Function

Only some of the models have this function. If the unit is started for the first time, the unit will not start running unless 3 minutes have elapsed. When the power resumes after power failure, the unit will run automatically the power indicator lights up, and 3 minutes later the compressor starts running with the indicator lighting up.

## REPLACEMENT OF ELECTROSTATIC FILTER

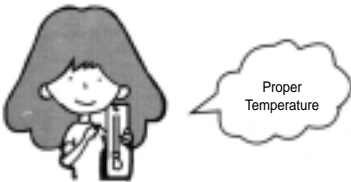


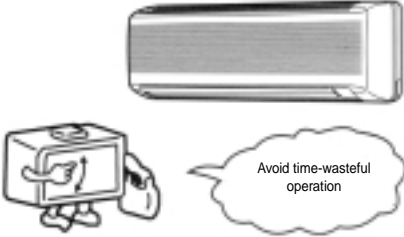


Some of the models may not have the frame of the filter.

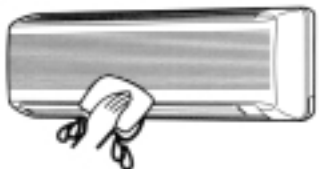


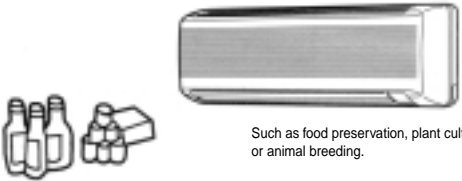
If Electrostatic Filter can no longer be used, please buy a new one instead.

# MAINTENANCE

## BETTER USE OF AIR CONDITIONER






<p>Propper room temperature</p> 	<p>Cleaning of the air filter</p> 
<p>Closing of doors and windows during operation.</p> 	<p>Effective use of the timer</p> 

Never fail to observe the followings

<p>Do not sprinkle water over the unit.</p> 	<p>Do not block the inlet or outlet.</p> 
<p>Do not pull power plug.</p> 	<p>Do not use other purposes</p>  <p>Such as food preservation, plant cultivation or animal breeding.</p>

# TROUBLE SHOOTING

Before asking for service, check the following first.

	Phenomen	Cause or check points
Norma Performance inspection	<p>The systems does not restart immediately</p> 	<ul style="list-style-type: none"> <li>• When unit is stopped, it won 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 craking noise may be heard. This noise is generated by the casing or shriking because of temperature change.</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 smells 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 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 fure 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 souces or too many people in the room during cooling operation?</li> </ul>

Application temp. range of air conditioner  $-7^{\circ}\text{C}$  to  $+43^{\circ}\text{C}$

