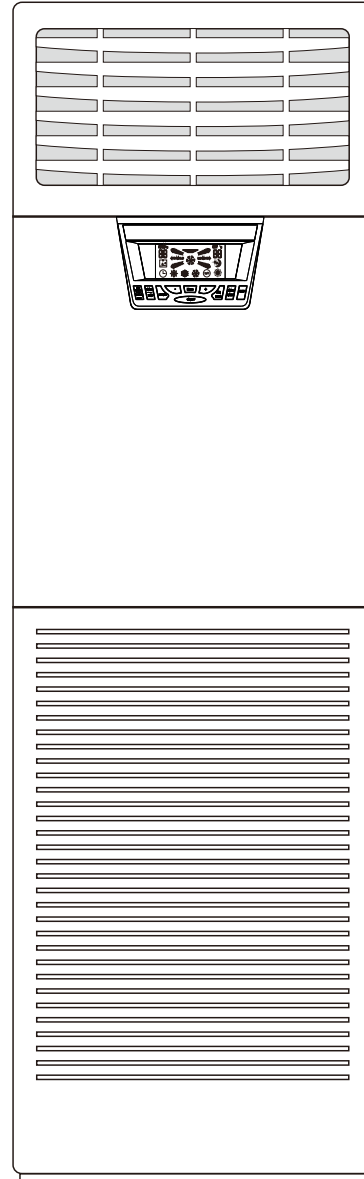


# Galanz

## SPLIT AIR CONDITIONER FLOOR STANDING TYPE OWNER'S MANUAL

- AUF-48H58R520



- Thank you for choosing an Air Conditioner. Please read this OWNER'S MANUAL carefully prior to using, keep it for further reference.
- Do not attempt to install, service or move the Air Conditioner by yourself. Incorrect behaviour may cause fire, electric shock and the unit falling may result in injury or water leakage. Contact our designated air conditioner service centre and specialists. The manufacturer shall not assume responsibility for accidents or injury caused by incorrect behaviour.

# CONTENTS

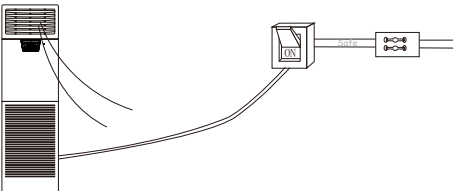

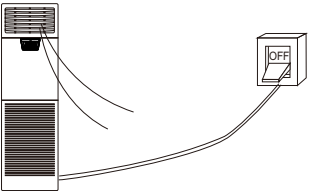
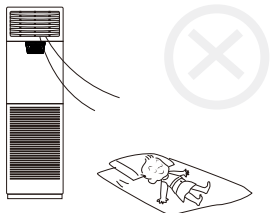
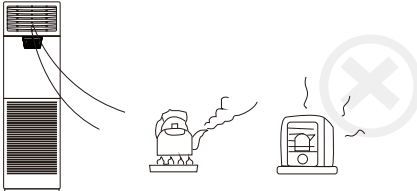

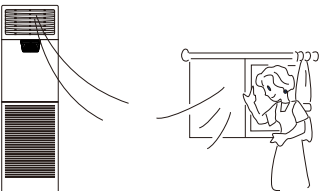
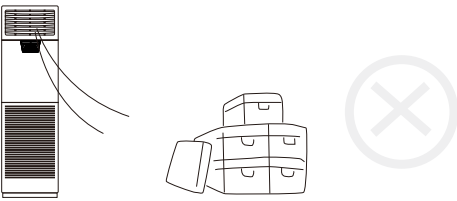

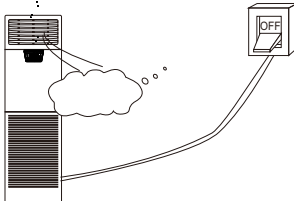
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# FEATURES OF THE AIR CONDITIONERS

- The super-thin cabinet, ivory tint color and cambered surface design all make the products look elegant and splendid.
- The large diameter centrifugal fan and foam wind tunnel designs greatly reduce the noise of the products. This makes the products possess a leading position in the air conditioning industry and gives the customers a more comfortable and quiet environment.
- Super-large heat exchanger and high efficiency cooling agent distributor make the dynamic distribution of cooling agent more reasonable, heat exchange efficiency higher and cooling and heating effect more significant. The powerful cooling and more natural air flow give you a cool, healthy and near-nature environment. When they are used for heating, the high efficiency heat pump design, “cold airflow prohibition” function and “hot-start air flow” function always give you comfortable warm air. Because the auxiliary electric heating device(only applied to electric-heat series) uses the latest microcomputer energy-saving control technology, it can automatically adjust room temperature according to the variation in heat pump effect, making the cold winter more warm and power consumption reduced.
- Ripple-type high efficiency filters doubles the area of ordinary filters and more fully eliminates the dusts in the air, which makes the air more clean, the machine failure caused by blockage more preventive and the operational life doubled. In addition, the filter reduces the cleaning two times than the ordinary filters, which evite a lot of trouble and makes the maintenance easier.
- The microcomputer “intelligent self-diagnosis” function precisely tells you the causes of failures due to improper operation and installation, and displays them on the controllers, which is useful for maintenance and operation.
- The special two-phase design for cooling connection tube allows the installation distance or height of the indoor and outdoor machines to extend to 20 meters without affecting their normal operation, which gives you free choices on installations. This is no match for other air conditioners.
- Swinging air flow the left and right air vanes automatically send out air flow in 120° horizon. The quick cooling and heating give you uniform temperature and near-nature air flow.
- Automatic switching the timer sets the start/stop times, which realizes unmanned intelligent operation.
- Easy operation the control is made through controller and the operation is simple. In addition, the temperature display allows you to see the environment temperature very easily and to adjust the temperature to your satisfaction.
- Long service life be cause strict control has implemented for the air conditioners in the whole process starting from design, raw material purchase to manufacture, their quality is more reliable and service life becomes longer.
- Strong counter-interference capability when the input voltage fluctuates violently, the well-designed control system can still protect the machine against any damage; in addition, the electric control unit uses metal shielding design and can effectively prevent the electromagnetic interference (all the electrical appliances give off electromagnetic wave), making the machine more stable.

# SAFETY AWARENESS

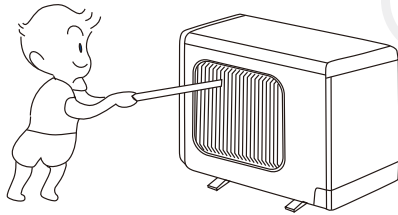
Read and understand thoroughly this safety awareness before use. The items indicated here are very important safety precautions, which must be followed.

<p>The capacity of the power lines must be enough; the power lines must have circuit breakers and fuses. Otherwise the power lines might be overheated and cause fire.</p> 	<p>Do not damage the power cord. You may damage it if you make connection from the middle of the power cord or extend it, put heavy object on it or place it near heat sources. In such cases, accidents like fire caused by short circuit or casualty might occur.</p> 
<p>When the machines are working, do not cut off the power (turn off the power switch, for example). If you do not use the machine for a long time, cut off the power.</p> 	<p>Do not allow the cool air to blow directly on humans, animals, plants, etc. (Especially there are babies, aged persons and patients).</p> 
<p>Do not put burning appliances at places exposed to the air flow, it may cause incomplete combustion and thus produce toxic gas: carbon monoxide.</p> 	<p>Before cleaning the machine, be sure to stop the operation and cut off the power! When cleaning, use a piece of dry and soft cloth. Do not use water, flammable or abrasive materials which may damage the outer surface of the machine and result in electric shock and even fire.</p> 
<p>When the machine has been operating for a long time, the air quality in the room is deteriorated. Therefore, open the windows periodically for ventilation.</p> 	<p>The machines should not be used to store food, precision instrument and artistic objects that have very high requirements for temperature and humidity.</p> 
<p>When the machine is working, do not open the inlet grid of the indoor unit.</p> 	<p>Stop operation and turn off the breaker immediately if anything abnormal occurs (such as burning smell). Then please contact with our service centre.</p> 

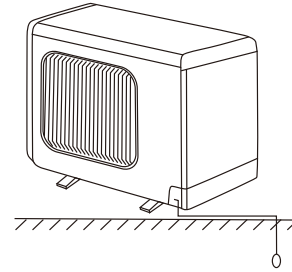
# SAFETY AWARENESS

Read and understand thoroughly this safety awareness before use. The items indicated here are very important safety precautions, which must be followed.

Do not put a finger, a rod or other objects into the air outlet/inlet grille. As the fan is running at a high speed, it will cause injury. Kids should pay more attention to this warning.



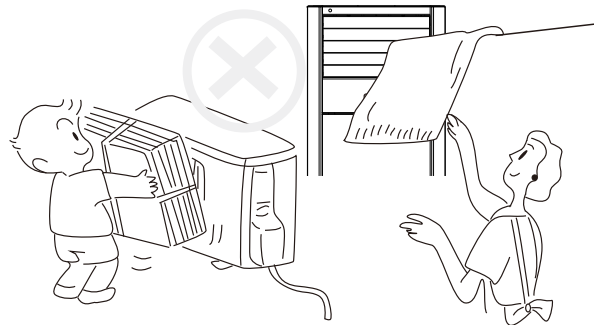
It is important that your air-conditioner is firmly grounded.



Don't spray insecticide or inflammable spray to the air conditioner.



Inlets and outlets of indoor and outdoor units shall not be covered/blocked.



The appliance shall not be installed in the laundry.

An all-pole disconnection switch having a contact separation of at least 3mm in all poles and a residual current device (RCD) with the rating of above 10mA should be incorporated in the fixed wiring according to the national rule.

The appliance shall be installed in accordance with national wiring regulations.

The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

Restart after a power failure. When the power is recovered, the air conditioner will not restart automatically.

Please press the button on/of on the remote controller or operation panel, the air conditioner will restart.

The appliance is not intended to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

The minimum clearance from the appliance to combustible surfaces shall not be shorter than 80mm.

If you find one of the following symptoms, please stop the operation quickly and enquire to After-sale Service centre of electrical appliance Ltd

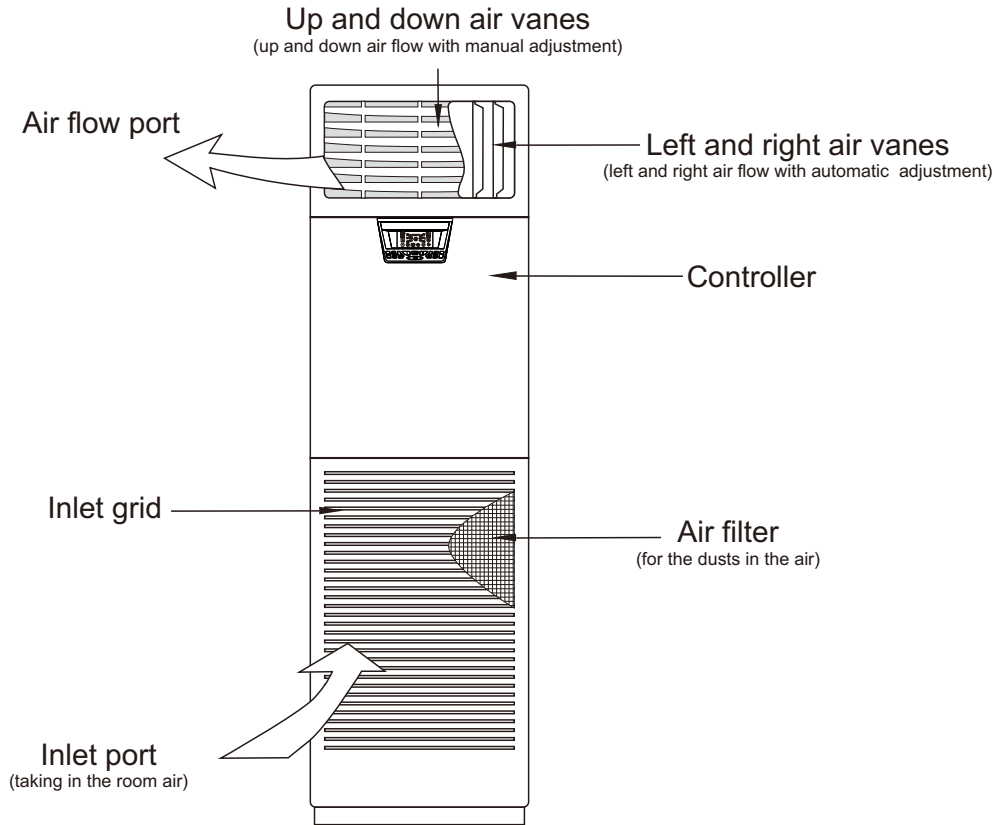
The earth leakage breaker often cuts off the operation. Some switch or button often fails to work properly, LED display screen is hard to see and other abnormal circumstances.

**Do not attempt to install, service or move the air conditioner by yourself. Incorrect behaviour may cause fire, electric shock and the unit falling may result in injury or water leakage. Please contact our designated air conditioner service centre and specialists for assistance. Disconnect the power supply before cleaning and maintenance.**

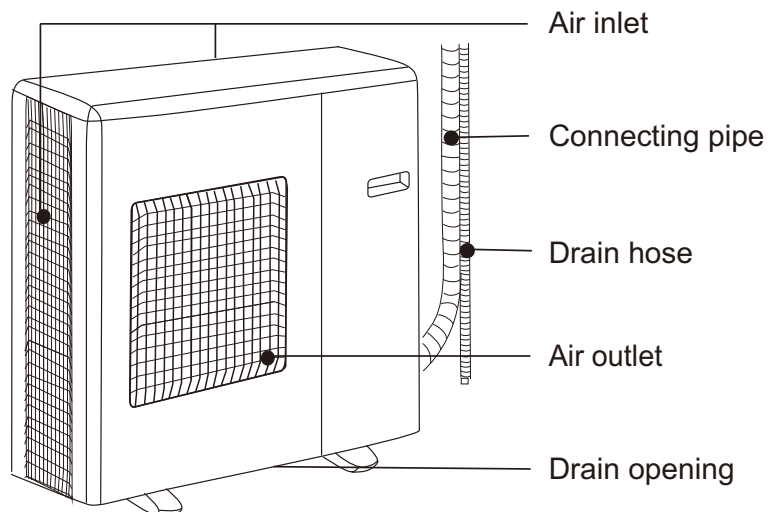


# NAME OF THE COMPONENTS

## ◆ INDOOR UNIT



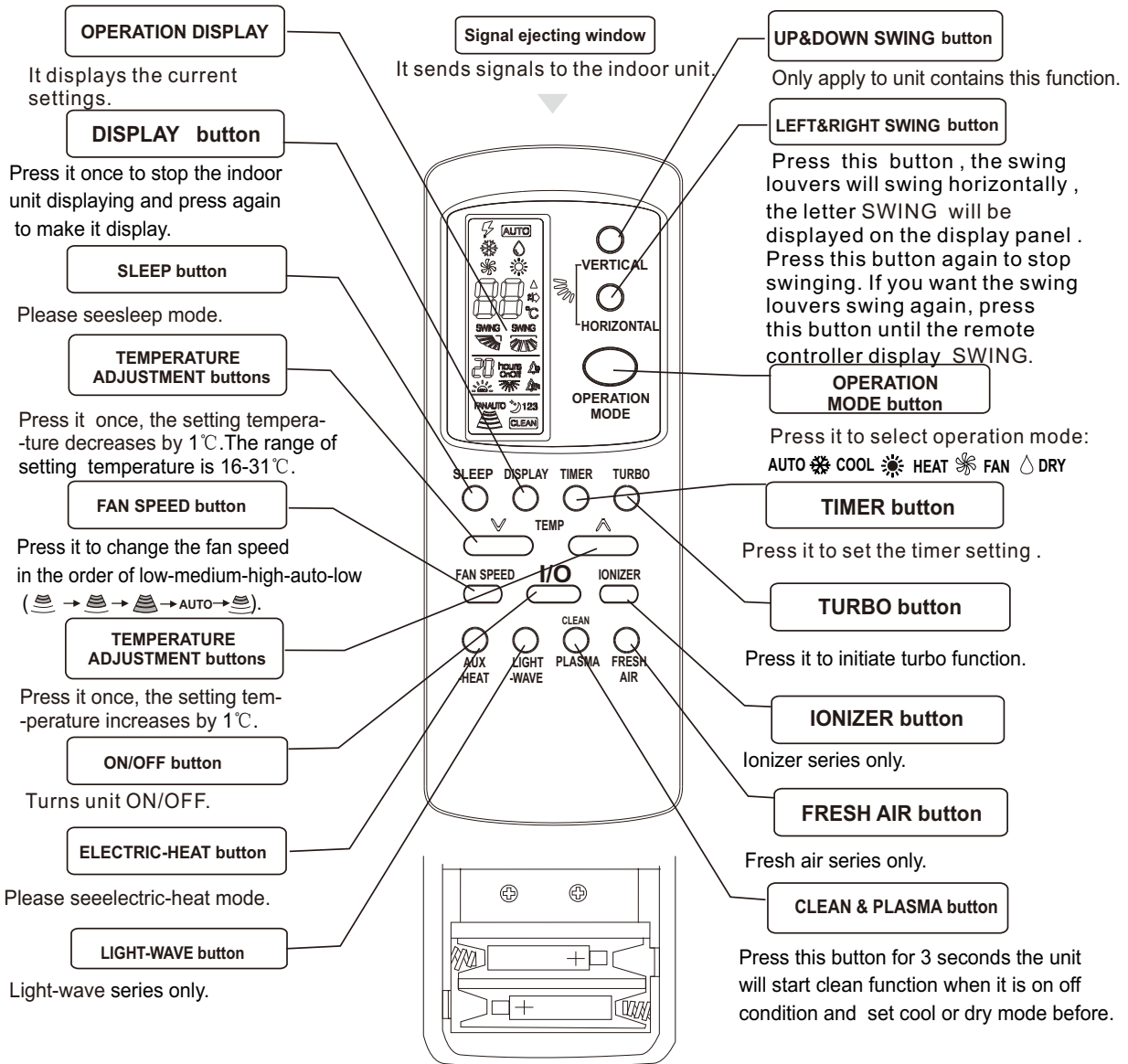
## ◆ OUTDOOR UNIT



**Note:** We reserve the right to improve the appearance of air conditioner and the continuing improvement is subject to change without notice.

# NAME OF THE COMPONENTS

## ◆ REMOTE CONTROLLER



## ⚠️ NOTICE:

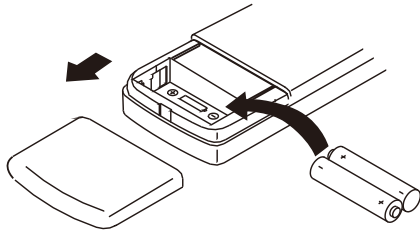
HEAT mode is not applied to cool only type.

Only electric-heat series contains ELECTRIC HEATING mode.

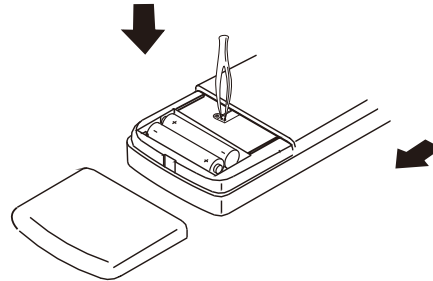
Please aim the signal ejecting window of the remote controller at the signal receiving window of the indoor unit.

# NAME OF THE COMPONENTS

1 Open the back cover and set two dry batteries.



2 Short RESET piece with forceps. (Short two RESET pieces after changing the batteries. )



## NOTICE

- If the remote controller is out of running, please short two RESET pieces and it will resume to normal working.



- The maximum distance for communication between the remote controller and the indoor unit is 6 metres.



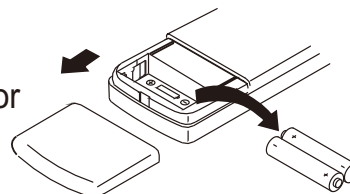
- Handle remote controller carefully. Do not drop, throw or get it wet.



- When the button is pressed, indoor unit will beep once or twice, indicating the receiving of the signal. If no beep is heard, press again.



- When the remote controller is not used for a long time, take the batteries out.





# OPERATION OF AIR CONDITIONER

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## ■ Operation procedure-Control under the Remote controller

### 1 Run/Stop

- Press I/O button, start operation, and stop when repressed.

### 2 Temperature adjustment

- Press TEMPERATURE ADJUSTMENT button, the set temperature decreases 1°C by pressing “▽” button once, and increase 1°C by pressing “△” button once.
- Temperature change will display on the remote controller display, and temperature indicator will display room temperature and setting temperature too.

### 3 Air flow speed adjustment

- Press FAN SPEED button, change the fan speed of indoor unit in the order of :  
■ ( low ) → ■■■■■■ ( high ) → ■ ( low )

(Note: because the quasi-intelligent design of the machines, the conditioners may not follow the air flow speed set by the controller during operation. This is normal because the machine is controlled by the conditioner's fuzzy control system.)

### 4 Sleep selection

- Press SLEEP button, set sleep operation, and cancel when repressed.

### 5 Swing selection

- Press SWING button, the deflector starts swing, and press MANUAL SWING button to stop it.

### 6 ELECTRIC HEATING selection(only applied to electric-heat series)

- Press ELECTRIC HEATING button, electric heater operation, and cancel when repressed.

### 7 OPERATION MODE adjustment

Press OPERATION MODE button, the operation mode change in the order of:

- Cooling only type: COOL → DRY
- Heat pump type: COOL → DRY → HEAT

### 8 Timer operation

- AUTO-ON/OFF timer operation set

1) When the unit is on press the timer button once to start timer off function and 1 will be shown on the display , every press of this button increases the AUTO-OFF time by 1hour(24hours at most), after it accumulates to 24 the air conditioner will quit timer function .

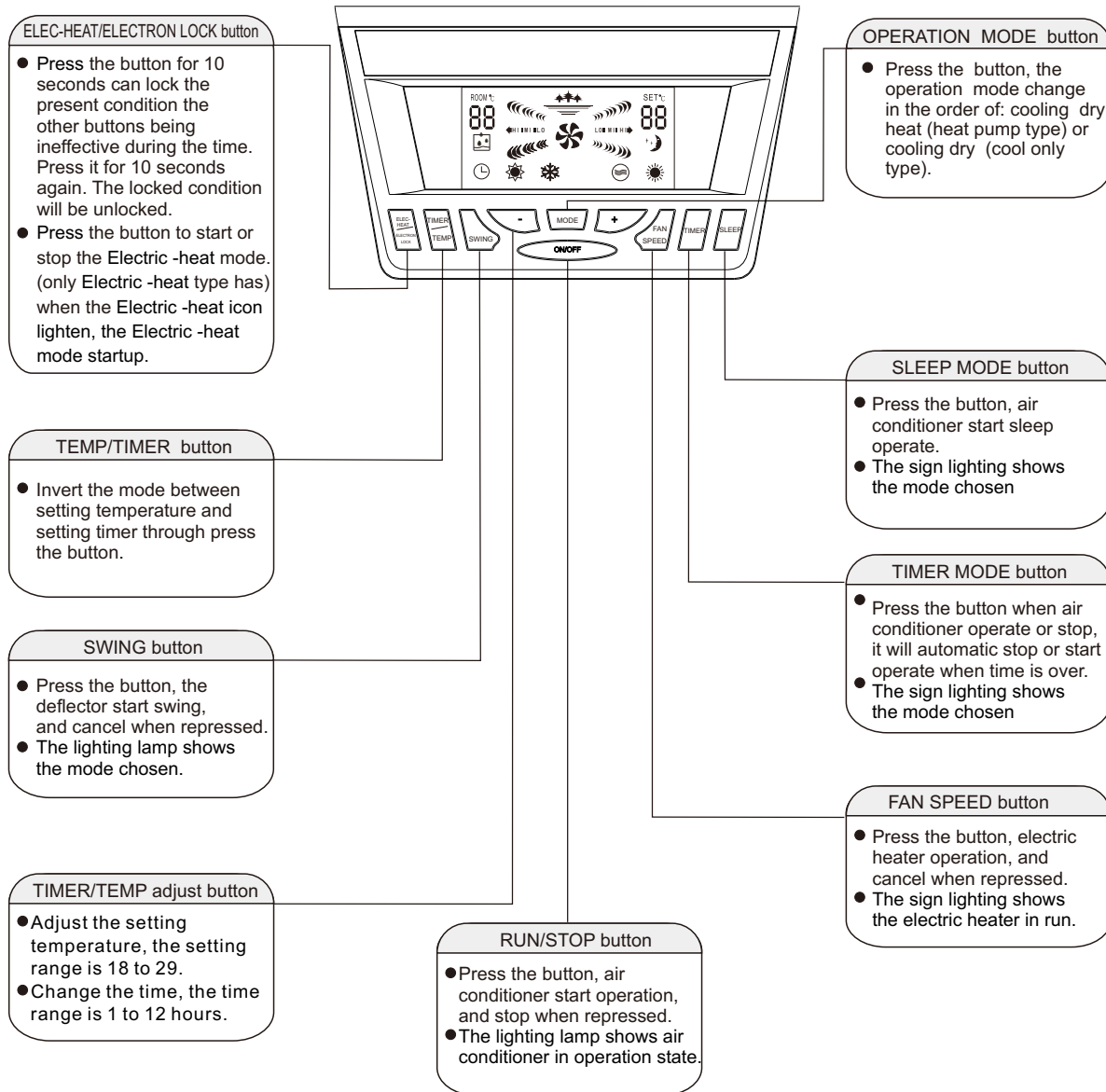
2) When the unit is off , press the timer button once to start timer on function and 1 will be shown on the display , every press of this button increases the AUTO-ON time by 1 hour (24hours at most), after it accumulates to 24 the air conditioner will quit timer function . When the timer on is activated the relative indicator lamps will light and modes can only be changed by pressing the buttons on the remote controller.

- AUTO-ON/OFF timer operation cancellation

When the time of timer reach 24, press timer button again the timer function will be cancelled, then the time and hours on or hours off disappear on the remote controller display.

# OPERATION OF AIR CONDITIONER

## Controller



### ICON EXPLANATION:



Cool mode Dehumidify mode Heat pump mode Electric -heat mode Timer Sleep mode Vertical swing Auto mode Fan mode

### IMPORTANT

When the machine is turned off, all display goes off, except the room temperature.

Do not contact the buttons with sharp objects to avoid scratching the controller. Do not let it be shocked, pressed or wetted. Otherwise, it might not be reparable.

# OPERATION OF AIR CONDITIONER

## ■ Operation procedure-Control under the controller in indoor unit

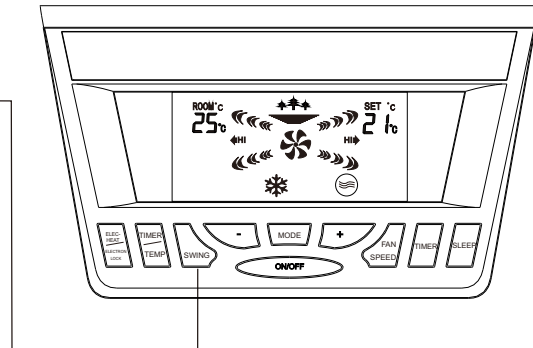
### LEFT/RIGHT ADJUST

#### Swing

Press the swing button ,swing light lighted , swing sign flashing , the left /right deflector starts swinging.

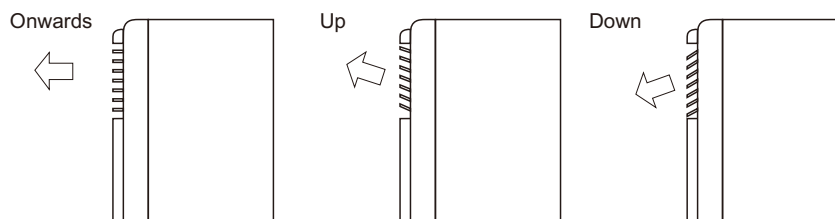
#### Directionalfan

Press the swing button , the deflector will swing in the present direction , and relevant signs go out .



### UP/DOWN ADJUST

Operating the up/down deflector can adjust the up/down swing angle. In cool or dry mode, usually adjust the up/down deflector to swing onwards or up, for cooled air automatically dropping with its heavier proportion, which will make the room temperature more equality. As the same principle, in heat mode, often adjust the deflector to swing down.



### TEMPERATURE SETTING

- 1 "ROOM" means room temperature, "SET" means setting temperature.
- 2 Press "+" button once, temp goes up 1°C; press "-" button once, temp goes down 1°C.
- 3 The change of setting temp and room temp will display in the controller.  
The range of setting temp is 18~29°C, and room temp is 0-99°C .
- 4 In the following conditions , temp can't be setting :

- Timer off setting

In the condition, the symbol of "⌚" lighted, the time of timer displays, temp setting is ineffective. If setting temp needed, please press "TIMER/TEMP" button or wait until the time of timer is fixed.

- Timer on setting

In the condition, the symbol of "⌚" lighted, the time of timer displays, temp setting is ineffective, even if press "TIMER/TEMP" button or the time of timer is fixed.

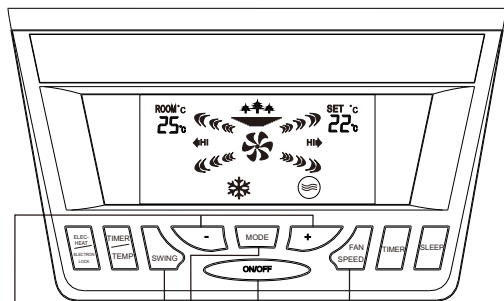
- Adjusting the time of timer

Press "TIMER/TEMP" button, then the time of timer displays, at this time, temp setting is ineffective.

# OPERATION OF AIR CONDITIONER

## ■ Operation procedure-Control under the controller in indoor unit

### COOLING OPERATION



Press “ON/OFF” button.

Press “MODE” button, setting “cool” mode.

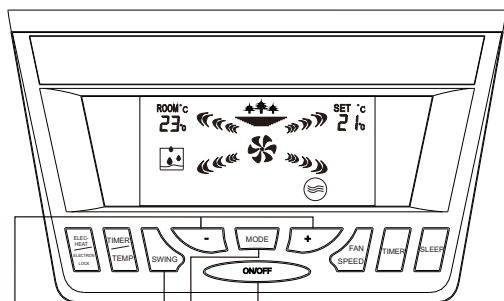
Press “+” “-” buttons, setting temp.

Press “FAN SPEED” button, setting fan speed.

Press “SWING” button, setting fan direction.

Stop: Press “ON/OFF” button.

### DEHUMIDIFY OPERATION



Press “ON/OFF” button.

Press “MODE” button, setting “dry” mode.

Press “+” “-” buttons, setting temp.

Press “SWING” button, setting fan direction.

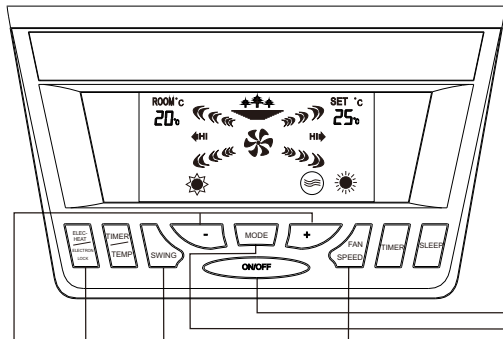
Stop: Press “ON/OFF” button.

- Please do not perform the dehumidification when the room temperature is below 18°C .
- When the machine is in dehumidification, the indoor fan will automatically stay at low air flow; it can not switch to strong air flow.

# OPERATION OF AIR CONDITIONER

## ■ Operation procedure-Control under the controller in indoor unit

### HEATING OPERATION(only apply to heat pump type)



Press “ON/OFF” button.

Press “MODE” button, setting “heat” mode.

Press “+” “-” buttons, setting temp.

Press “FAN SPEED” button, setting fan speed.

Press “SWING” button, setting fan direction.

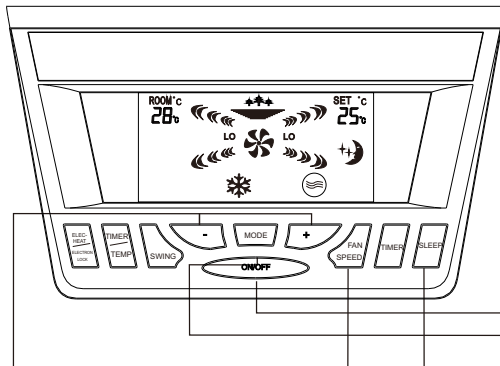
Press “ELEC-HEAT” button, setting “electric heater” mode.(Only for electric-heat series)

Stop: Press “ON/OFF” button.

# OPERATION OF AIR CONDITIONER

## ■ Operation procedure-Control under the controller in indoor unit

### SLEEP MODE



Press "ON/OFF" button.

Press "MODE" button, setting "heat" mode.

Press "+" "-" buttons, setting temp.

Press "FAN SPEED" button, setting fan speed.

Press "SLEEP" button, setting sleep mode.

Stop: Press "ON/OFF" button.

- Press "SLEEP" or FAN SPEED can exit sleep mode.
- In sleep mode, fan speed will automatically turn to low speed.

# OPERATION OF AIR CONDITIONER

## Operation procedure-Control under the controller in indoor unit

### FUNCTIONS OF THE TIMER

- Timer off  
On running condition, the machine will stop when the time of setting reaches.
- Timer on  
On off condition, the machine will start running when the time of setting reaches.

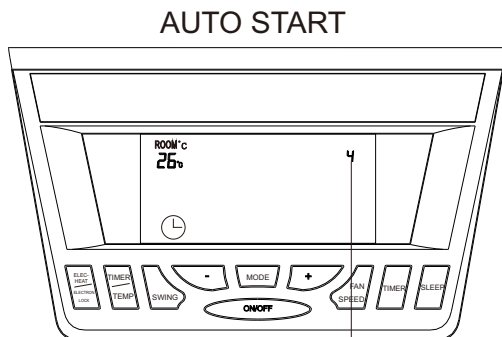
### NOTICE:

The time range of restarting the machine after stopping it must be more 3 minutes, for the delay Restart control of the system.

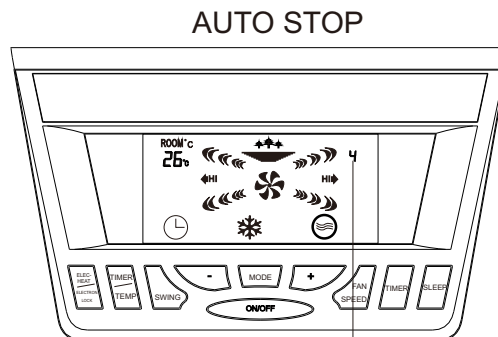
### OPERATIONS OF TIMER

AUTO STOP	AUTO START
<ul style="list-style-type: none"> <li>● Press “ON/OFF” button, the air conditioner is turn on;</li> <li>● Press “TIMER/TEMP” button, the air conditioner enters timer off condition, the sign “⌚” lighted, and the words “1” displayed.</li> <li>● Setting the timer of timer off</li> <li>● The time range is 1 to 12 hours. Press “+” “-” to increase or decrease one hour, and the timer words will display 30s, denote the time of the air condition will stop. The time will decrease 1hour by one hour automatically. It will renew display the set temperature after finish the timer off setting.</li> <li>● Adjusting the time Repeat above action.</li> <li>● Cancel timer Press “TIMER” button , the air conditioner will continue operating ; Press “ON/OFF” button, the air conditioner will stop.</li> </ul>	<ul style="list-style-type: none"> <li>● Press “ON/OFF” button, the air conditioner is turn off;</li> <li>● Press “TIMER/TEMP” button, the air conditioner enters timer on condition, the sign “⌚” lighted, And the words “1hour” displayed.</li> <li>● Setting the timer of timer off</li> <li>● The time range is 1 to 12 hours. Press “+” “-” to increase or decrease one hour, and the timer words will display, denote the time of the air condition will start. The time will decrease 1hour by one hour automatically.</li> <li>● Adjusting the time Repeat above action.</li> <li>● Cancel timer Press “TIMER” button , the air conditioner will stop. Press “ON/OFF” button, the air conditioner will start.</li> </ul>

**IMPORTANT:** If there is a power interruption (for example, there is a power cut, or the power cord is taken off), you need to reset the time of auto stop or auto start. Otherwise, the stop/start deviations or malfunctions might arise.



The remaining time display  
As picture displays, the machine will start running after 4 hours.



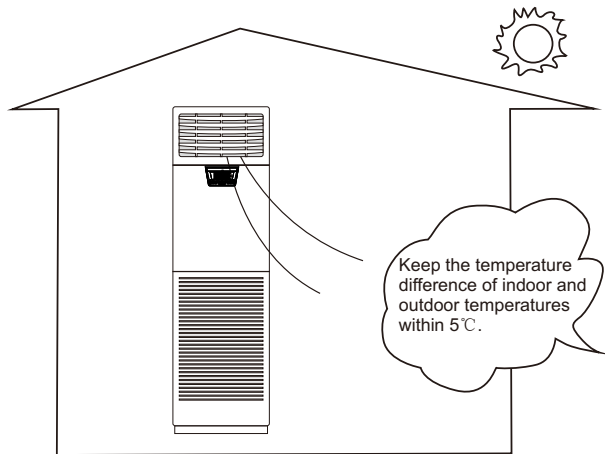
The remaining time display  
As picture displays, the machine will stop running after 4 hours.

# GUIDE TO PROPER USAGE

Be more careful and you will enjoy more comfortable cooling&heating effect and save more energy.

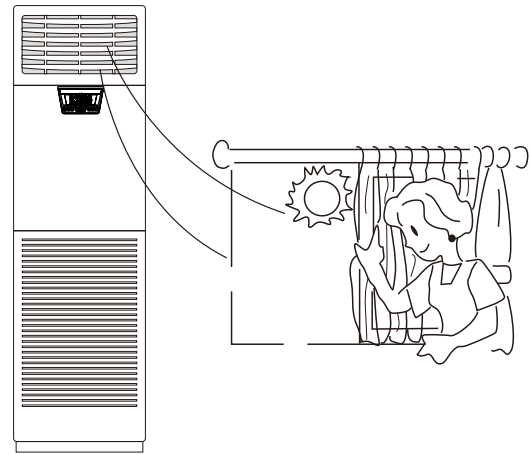
## Set the room temperature to your suitable point

- During cooling, a difference of 5°C between the indoor and outdoor temperature will suit you better.
- During cooling, increase of 1°C will save energy by 10%.
- Too low room temperature will do harm to your health and also wastes energy.



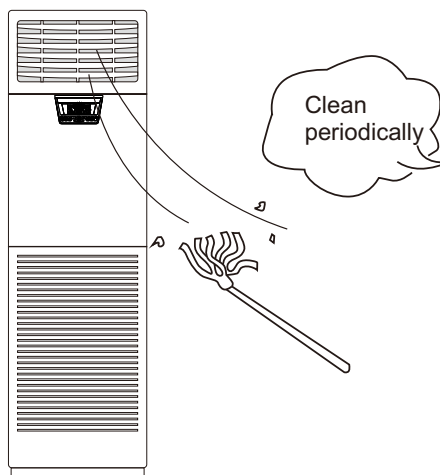
## When cooling, keep away from sunshine

- During cooling, draw the curtains especially for the windows facing the sun to reduce the incoming heat; Besides, reduce the frequency of door opening as much as possible.



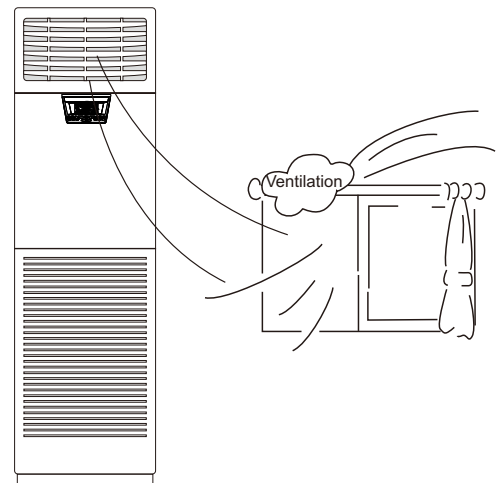
## Clean the air purifying filter periodically

- If the air purifying filter becomes clogged with dust/dirt, air flow is restricted and reduces cooling & heating efficiency. If the machine has not been used for a long time, clean the air purifying filter before use. In a dusty environment, clean the air purifying filter more often.



## Ventilate the room periodically

- If the windows and doors have been closed for a long time, there would be lack of oxygen in the room. Therefore, ventilate the room periodically.

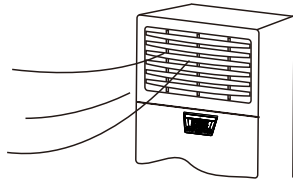




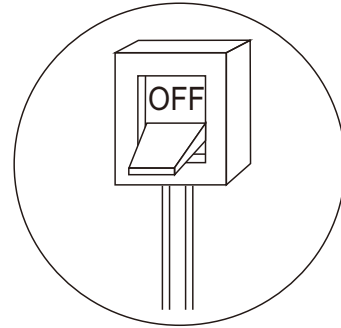
# GUIDE TO PROPER USAGE

## ◆ IF YOU WILL NOT BE USING THE AIR CONDITIONER FOR A LONG IDLE PERIOD

- 1 Set the fan of the indoor unit going for 3 to 4 hours to dry out the inside thoroughly. (For cool only type, just set FAN mode; For heat pump type, choose cool mode or heat mode and select the highest or lowest temperature.)

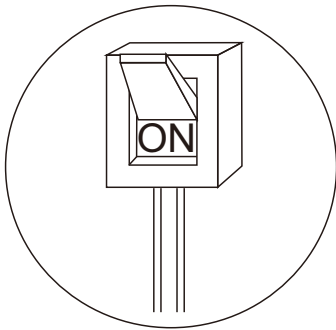


- 2 Switch off the air conditioner .

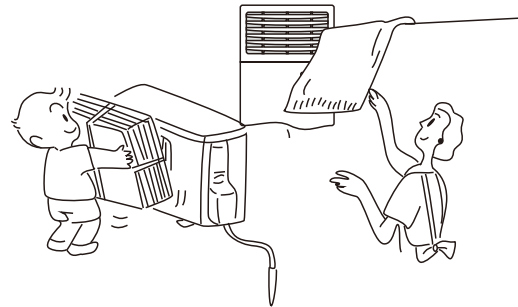


## ◆ IF YOU HAVE NOT USED THE AIR CONDITIONER FOR A LONG PERIOD

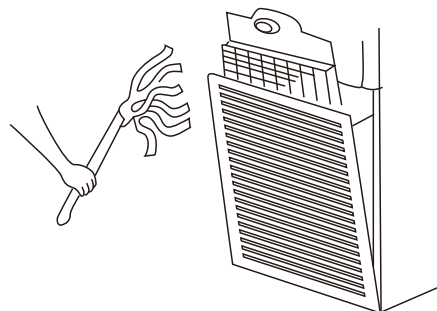
- 1 Operate the air conditioner 12 hours after being turned on.



- 2 Clear dusts and other foreign objects blocked in the inlet and outlet of the indoor and outdoor unit.



- 3 If the air purifying filter becomes clogged with dust/dirt, air flow is restricted and reduces cooling & heating efficiency. If the machine has not been used for a long time, clean the air purifying filter before use. In a dusty environment, clean the air purifying filter more often.

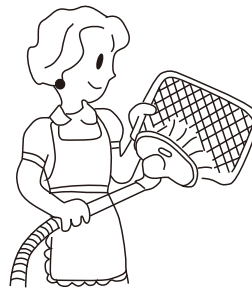
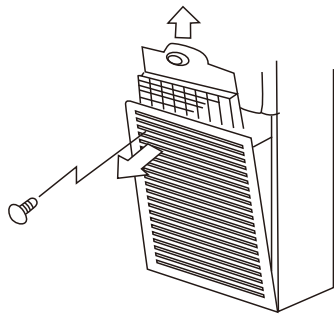


# MAINTENANCE

Note: Be sure to disconnect the power supply before cleaning and maintenance.

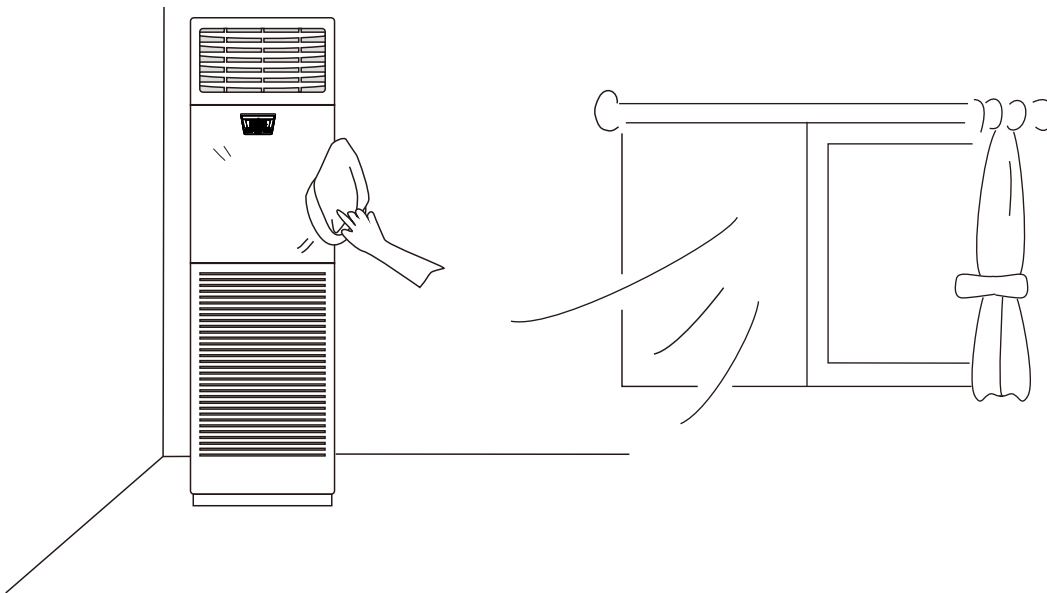
## Cleaning of the filter net

- If the machine has been operating for a long time, the filter shall be cleaned termly. It is better to clean the filter net biweekly.
- First remove the inlet grid, and then remove the air filter net.
- Clean the air filter net. It can be cleaned with the vacuum or soft hair brush, or washed using warm water( below 45°C).
- If the air filter net has been washed, it shall be laid in ventilative area and dried completely.
- Install the air filter net and the inlet grid.



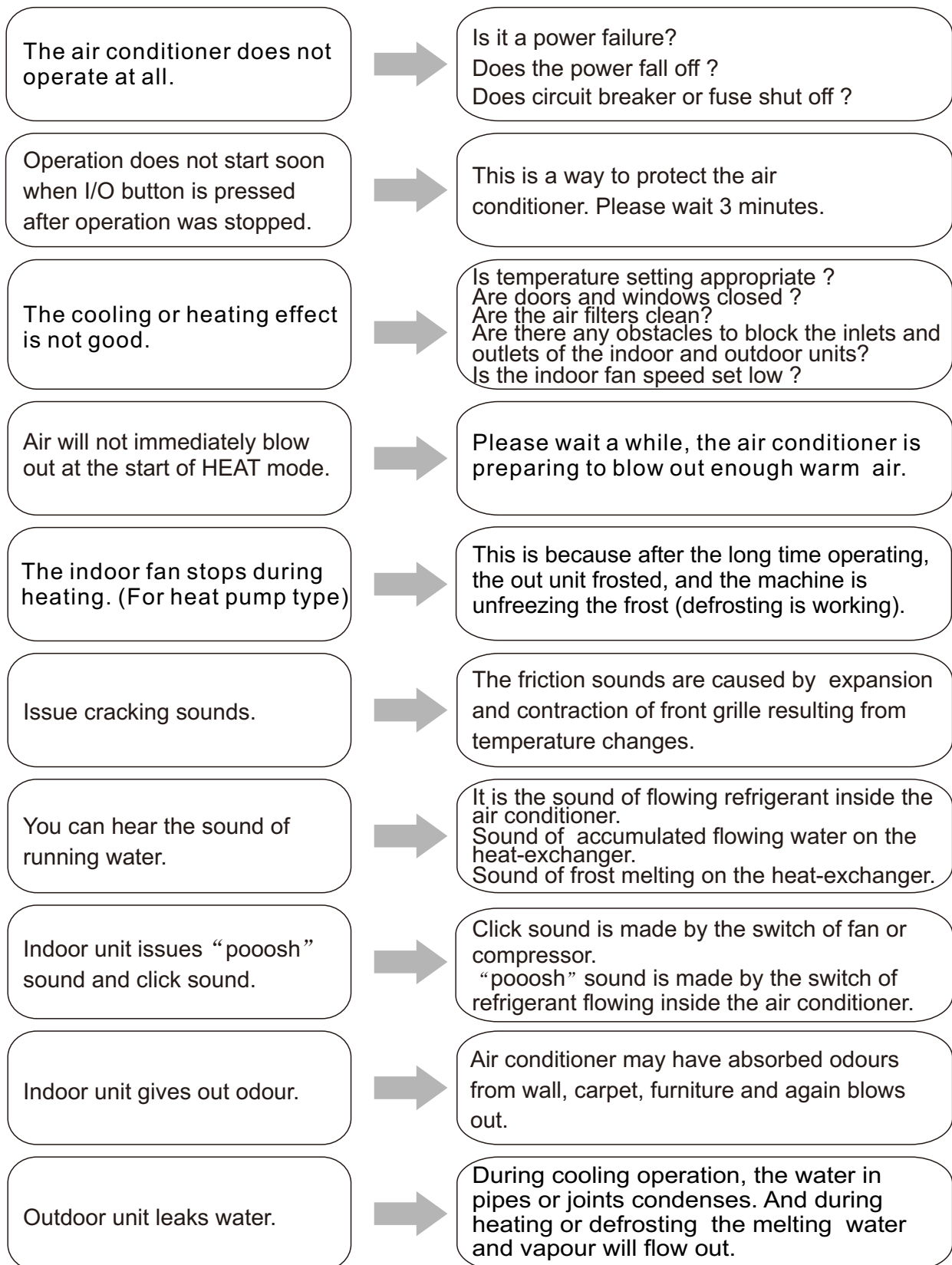
## Cleaning of the outer surface

After long time operating, to keep the cleanness , you can clean the air conditioner surface using soft cloth. If there are dirt that can not clean out easily, you can clearing it using neutral cleaner. Don't clearing it with volatileimpregnant and wirehaired brush to avoid the surface damage and irreparable damage.



# PRE-REPAIR CHECK

Please check the following items before calling a repair person. And if you still need help, please contact with our designated service centre.



# PERFORMANCE PARAMETER

Model	AUF-48H58R520	
	Indoor	Outdoor
Function	Heat pump type	
Power	220-240V~50Hz	3N 380V~50Hz
Rated capacity(W)	14000/15400	
Standard input power(W)	4900(cool)/5100(heat)	
Rated input current(A)	8.5(cool)/9.7(heat)	
Air flow volume(m <sup>3</sup> /h)	1900	
Dehumidifying capacity(L/h)	4.8	
Protection class	I	
Water -proof	IPX4	
Climate type	T1	
Refrigerant(R410A) charge amount(g)	2850	
Noise dB(A)	52	62
Net weight(Kg)	60	85
Dimension(mm)WXHxD	1900x605x330	955x1030x413

## NOTICE:

- 1.The indicated noise parameter is measured in laboratories before leaving factory.
- 2.The rated cooling/heating capacity is tested under the following conditions:

Cooling operation	indoor	27°C(DB)	19°C(WB)	outdoor	35°C(DB)	24°C(WB)
Heating operation	indoor	20°C(DB)	15°C(WB)	outdoor	7°C(DB)	6°C(WB)

- 3.Due to its policy of constant development. We reserve the right to modify technical data without notice. While errors and omissions are a possibility, every reasonable effort has been made to ensure that the information in this manual is correct.

- 4.Operating temperature range:

	Maximum cooling	Minimum cooling	Maximum heating	Minimum heating
Indoor side DB/WB(°C)	32/23	21/15	27/--	20/--
Outdoor side DB/WB(°C)	43/26	21/15	24/18	-5/-6

- 5.Wiring diagram of air conditioner(indoor unit/outdoor unit) are attached to the indoor/outdoor unit respectively.
- 6.If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 7.Fuse parameter: T5A/250V.

# INSTALLATION INSTRUCTIONS

## ◆ SELECTION OF INSTALLATION LOCATION

### Indoor unit

- Keep the air inlet and outlet at a far distance from the blockage.
- A place avoiding direct sunshine and easy for condensate drain and easy for connecting with the outdoor unit.
- Keep at least 1m away from the TV radio and other home appliances and keep a far distance away from the fluorescent lamp.
- A place shall be kept away from the lampblack, steam and inflammable gas.
- For heat pump type, it shall be kept away from the fire alarm (during heating, the warm airflow may cause malfunction of the fire alarm.)
- Mount on the wall solid enough to bear the weight of the unit and not cause any shake.

### Outdoor unit

- Mount on the wall solid enough to bear the weight of the unit and not cause any shake.
- A place with good ventilation, less dust and not exposed to rainfall and direct sunshine.
- A place where the air discharged out of the outdoor unit or the operation noise will not annoy your neighbours.
- Avoid places close to inflammable gas and caustic gas.
- A place easy for condensate drain and easy for connecting with the indoor unit.

## ◆ MOUNTING ACCESSORIES

Before installation, please check and confirm the following accessories:

Number	Accessories	Quantity	Installation position
1	Stator	1	The inner side of the inlet grille.
2	Tapping bolt/expansion rubber plug	3	
3	Connecting cable	1	

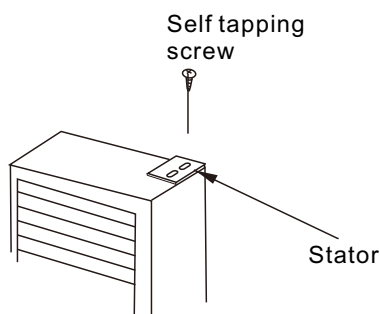
Attention: For detailed content of accessories, please take our packed objects as major reference.

## ◆ INSTALLATION OF THE INDOOR UNIT

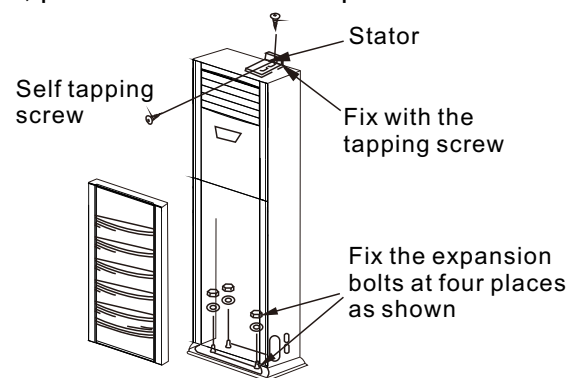
- The use of stator(The stator is an optional accessory)

As the indoor unit has a high and long shape, so the stator is used at the top of the indoor unit to prevent tilting ( method 1).

If the wall and floor are not covered with wood, please fix with the expansion bolt sold in market. (Method 2).



Method 1.



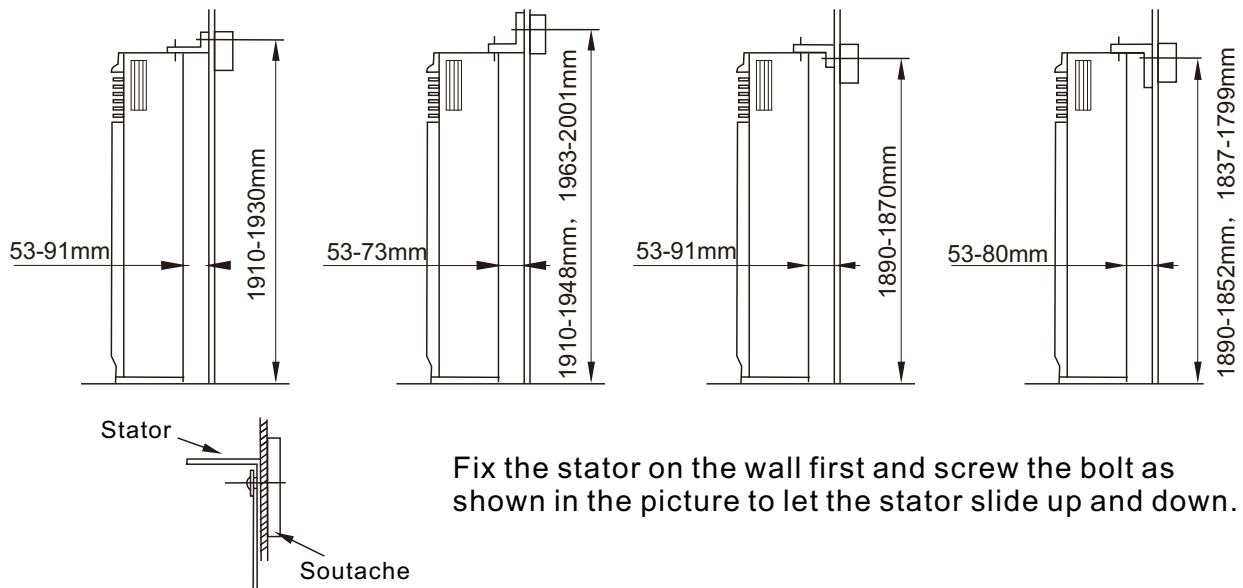
Method 2

# INSTALLATION INSTRUCTIONS

## ● The use of stator

According to the position of soutache on the wall, select the proper way as the following:  
The machine can be directly fixed on the wall that must be solid enough.

While installing the air exhaust pipe at top of the unit, please don't overlay the bolt hole for installing the air outlet pipe. (You can set the long side of stator towards the wall to prevent overlay)

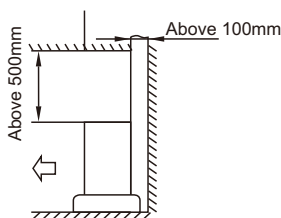


Fix the stator on the wall first and screw the bolt as shown in the picture to let the stator slide up and down.

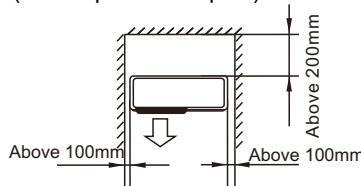
## ◆ INSTALLATION OF THE OUTDOOR UNIT

### ● Single unit mounting

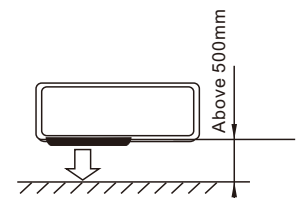
1 When there is obstruction above the unit, if we can keep the space as shown in the figure, this position is still feasible.



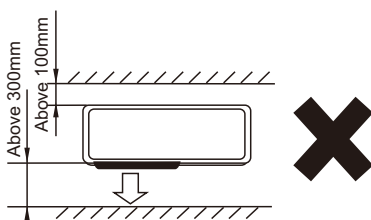
2 When the front side (air outlet) is open, if we can keep the space as shown in the figure, this position is still feasible even if there is obstruction in other three sides. (The top side is open)



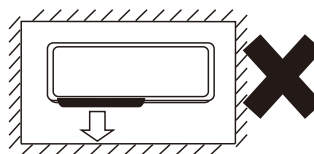
3 If there is obstruction at front side, the backside, top side and flank sides shall be kept open.



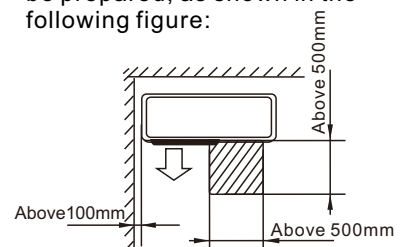
4 When there is obstruction at both front side and backside, please don't choose the following location.



5 When there is obstruction in all four directions. Even if the top side is open, the unit can not be installed there.



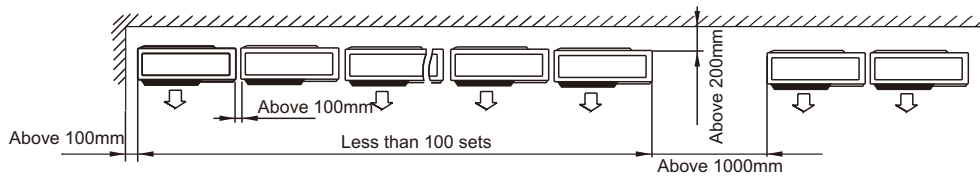
6 While installing the outdoor unit, enough maintenance space shall be prepared, as shown in the following figure:



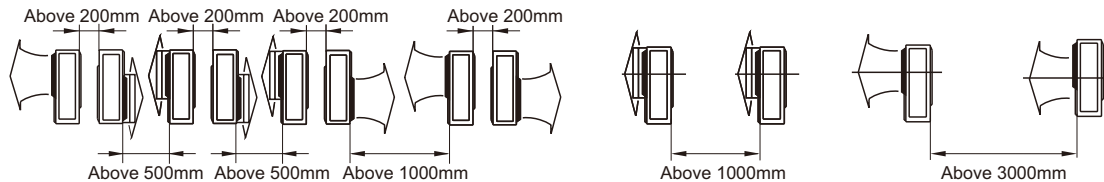
# INSTALLATION INSTRUCTIONS

## ● Multi-unit mounting

1 Install side by side (If this method is used, the top side must be open. Meanwhile, please remove the bolts at the pipe side )

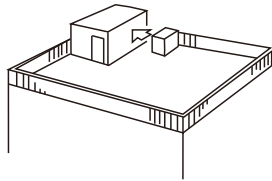


## 2 Install in tandem

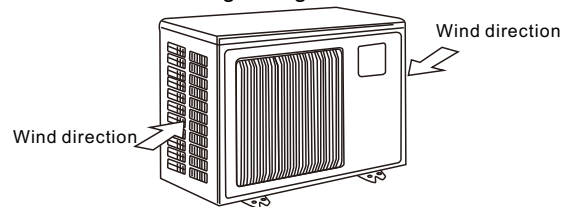


3 Avoid strong wind blowing directly at the outlet of the outdoor unit if the outdoor unit is installing at the roof or position without buildings around it for fear that the insufficient volume of air flow in heat exchanger may affect the cooling and heating efficiency and cause breakdown.

When there is wall nearby, the air outlet shall orientate to the wall and keep a 500 mm distance from wall.



When the air outlet is affected by strong wind and wind direction, change the position of the outdoor unit and adjust the air outlet and wind direction at a right angle.



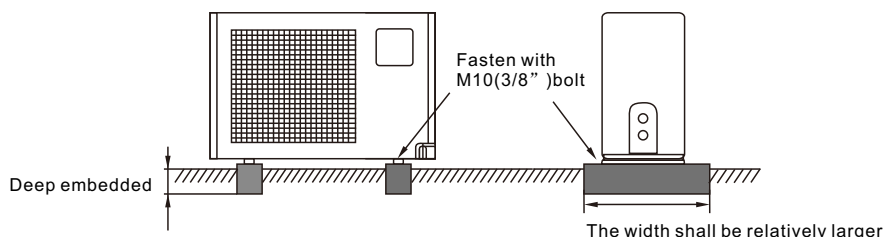
## ◆ INSTALLATION OF THE OUTDOOR UNIT

### Attention:

Attempt to deliver the air conditioner to the repair shop with the original packing. As the gravity centre of the outdoor unit is not at the middle, so please be careful while hoist the unit. Don't incline it more than 45° in conveying process.

Bolts shall be used to fasten the machine foundation while installation. (Purchase separately).

Please install it firmly to prevent collapse caused by the earthquake or strong wind. When you are working on the concrete foundation, please refer to the following figure.



# INSTALLATION INSTRUCTIONS

## ◆ INSTALLATION OF REFRIGERANT PIPELINE AND DRAIN PIPE (INDOOR UNIT)

- 1 To remove the bottom panel, you should remove the fixing screws first and then pull the panel out.
- 2 Remove the fixing screw from the pipe shield and take the shield off. (figure 1)
- 3 Please break the evaporator craft tube with pincers before connecting. After exhausting the inside air, use the wrench to twist down the bottom nut of connecting tube of the evaporator. (figure 2)
- 4 Put a layer of airproof oil to cover the joint and the expanding orifice of connecting pipe.
- 5 Screw the nut towards the right centre and tighten it with spanner. (figure 3)

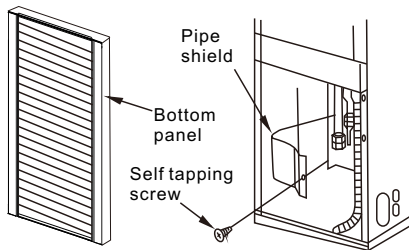


Figure 1

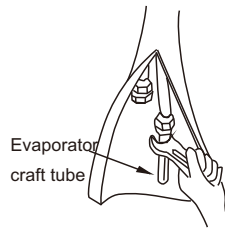


Figure 2

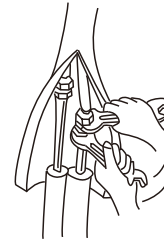


Figure 3

Table of Screwing Torque and Angle

Pipe diameter	Torque(N.m)	Angle
6.35mm(1/4")	14--17	60--90
9.52mm(3/8")	30--35	60--90
12.7mm(1/2")	30--35	30--60
15.88mm(5/8")	73--78	30--60

### Attention:

The number of elbow pipes can not be more than 10 in the indoor unit, and can not be more than 15 for the total units. The radius can not be great than 10 cm. Don't screw with excessive force on the expanding orifice.

### Attention:

After installation of the pipes in the indoor unit, heat insulation is also needed to be done.

1. Do not reveal the joint of the expanding orifice and copper pipe. They should be wrapped up by heat preservation material to avoid condensate water separating out.
2. Do not put the heat preservation covers of the gas pipe and liquid pipe together. Wrap them up separately.
3. After installing the heat preservation cover, fix the pipes to the grid firmly with the tight cable through the hole of the grid. (Moving of the pipe will influence the installation of the air inlet grid)

## ◆ INSTALLATION OF THE DRAIN PIPE

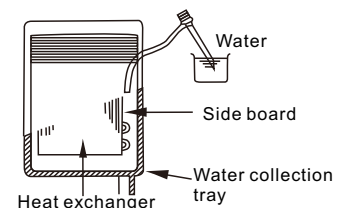
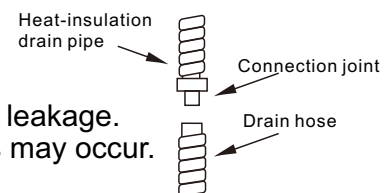
For easy drainage, please possibly decline the drain hose to ensure no accumulated water.

Please purchase the heat preservation cover to deal with the condensate water on the surface of drain hose as you need.

Besides, the connecting joint must be covered tight to prevent water leakage. Do not place the drain hose at places where sulfur or other odor gas may occur.

After installation of the drain pipe, you should check its smooth drainage and water leakage from the connecting joint.

You can insert the drain pump into the outlet grid at right side and add 1000 milliliter of water to observe whether it can drain water smoothly. Water should be added from the right side of the water outlet through the side board of the heat exchanger. For electric heating series, be sure not to moisten the thermistor.





# INSTALLATION INSTRUCTIONS

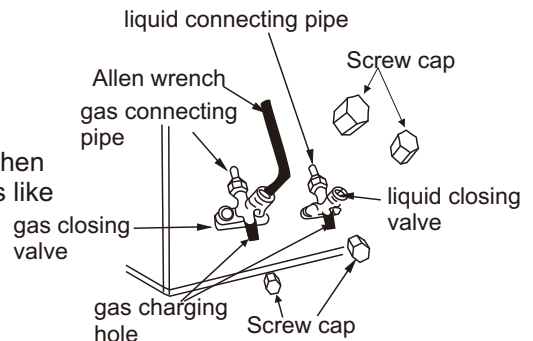
## ◆ INSTALLATION OF CONNECTING PIPE AND DRAIN HOSE (OUTDOOR UNIT)

### ● Connect connecting pipe

1. Wipe the airproof oil on the closing valve and the trumpet extended pipe;
2. Screw down the nut of connecting pipe with the wrench. (the torque as the indoor unit)

Discharge the air of the units:  
(It can use vacuum pump, too.)

- Take off screw cap for closing valve and gas charging hole;
- Open the closing valve with Allen wrench (turn 90° clockwise), then push the gas charging hole about 10 seconds, (When the gas like the fog appears, indicating the air of unit is discharge at all.)
- Screw down the screw cap of gas charging hole.
- Proceed leak test with leak detector or soap water.



## ◆ SUPPLEMENTATION OF REFRIGERANT

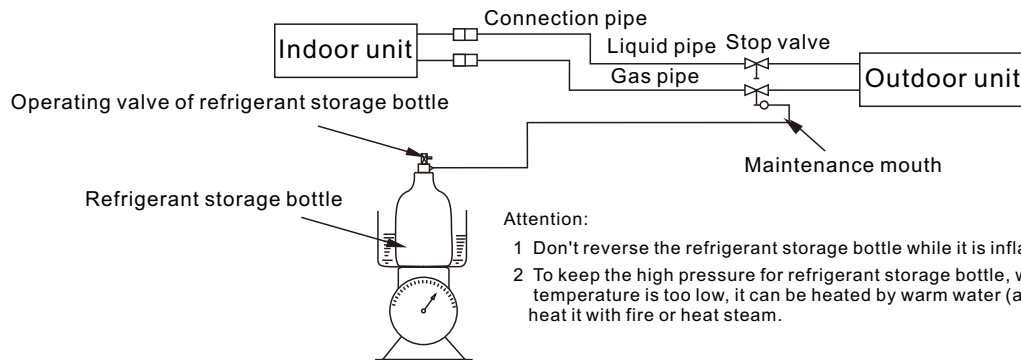
- When the pipe is over 8 meter long, the fluorine shall be supplemented in accordance with this formula:  $A=80g/mx(L-8)$ . (A refers to the supplemented amount of fluorine, L refers to the length of the connecting pipe.)

Allowable length of the distribution pipe (one way)	Amount of fluorine to be filled (gram)						
	≤8m	10m	12m	14m	16m	18m	20m
20m	—	160	320	480	640	800	960

Note: The highest fall of the connecting pipe cannot exceed 10m.

### ● Steps of supplementation of refrigerant

1. Connect the operating valve of the refrigerant storage bottle to the maintenance mouth of the stop valve with the inflated hose.
2. Loosen the inflated hose joint a bit at the end of the maintenance mouth connected to the gas stop valve. Open the operating valve of the refrigerant storage bottle to vent the air with refrigerant. Emergence of mist gas shows that the air is completely vented out.
3. Observe the spring balance, fill refrigerant with the required amount.



## ◆ TIPS OF INSTALLING DRAIN HOSE

When heat making, the back body of the outdoor unit will have blob drop, please consider this situation to avoid polluting environment.

# INSTALLATION INSTRUCTIONS

## ◆ CONNECTION OF POWER SUPPLY WIRES AND SIGNAL WIRES

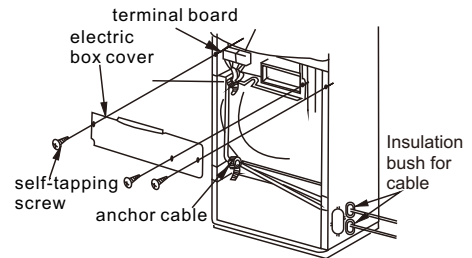
### ● Indoor unit

1 Remove the self-tapping screws (3 pcs) fixing the electric box cover and take out the electric box.

2 Loosen the fixing screw of the power terminal board and signal terminal board, then firmly fix the power wire and signal wire on the terminal board with the fixing screw.

3 Fix the connected wires with wire spacer and anchor cable. The ground wire must be firmly connected.

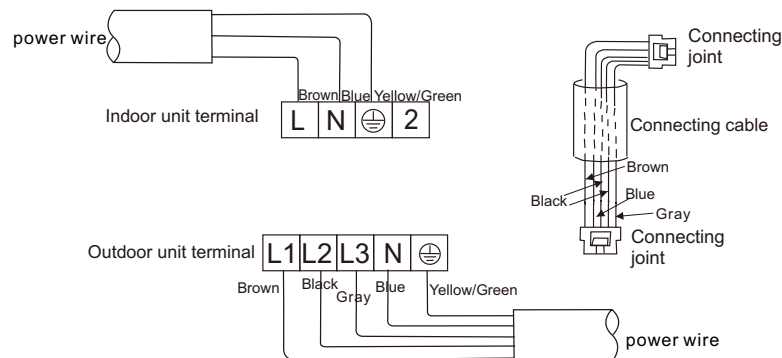
4 Since the piping is likely to have condensate, the power wire and signal wire should use insulation sleeve to avoid contacting the pipe. Install the electric cover.



### ● Outdoor unit

Wiring route of the outdoor unit goes together with that of tubing.

### ● Wiring diagram



### Note:

1 If you find the color of connecting cable not comply with the top diagram, please take real objects as major reference. But the terminal of the same sign must be joint with the connecting cable of the same color.

2 The power wire and signal wire between the indoor/outdoor units must be connected one by one as per corresponding number on the wiring terminal board.

3 If the signal wire has to be bought separately, choose electric wire above 0.75mm<sup>2</sup>.

# INTELLIGENT SELF DIAGNOSIS

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## ◆ INTELLIGENT SELF DIAGNOSIS

When electrify for the first time, the air conditioner will check the function automatically. If has some thing wrong, the system will display the room temperature and the set temperature substitute to show the trouble of the air conditioner.

### Trouble code explanation as follows:

<b>E0</b>	—————	Communication malfunction of LED and main control board
<b>E1</b>	—————	Outdoor unit protection malfunction (high pressure, overheat and negative phase etc.)
<b>E2</b>	—————	E <sup>2</sup> PROM communication malfunction
<b>F3</b>	—————	Communication malfunction of main control board and outdoor unit
<b>F7</b>	—————	Room thermistor abnormal
<b>F8</b>	—————	Coil thermistor of indoor unit abnormal
<b>F9</b>	—————	Coil thermistor of outdoor unit abnormal

