

ENGLISH



## AIR CONDITIONER FLOOR STANDING



To get the best results from your Binatone product  
please read these instructions carefully.

ACFS-24

**Binatone has an incredible heritage.**

**Established – 1958 in London, UK.**

We are an absolutely customer centric company!

With more than 60 years delivering quality products to our customers in more than 75 countries – our global footprint enables economies of scale.

This allows us to offer you some of the world's highest performance, quality & value products available in the market today.

Our commitment lies solely in delivering high quality, affordable products.

Our international team is constantly pursuing every effort to make products not just 'appliances' but 'lifestyle improvements.

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## SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

⚠ Read this guide carefully before installing and using the appliance.

⚠ During the installation of the indoor & outdoor units – access to the working area should be forbidden to children. Unforeseeable accidents could happen.

⚠ Make sure that the base of the outdoor unit is firmly fixed.

⚠ Check that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.

⚠ Carry out a test cycle after installing the air conditioner and record the operating data.

⚠ The ratings of the fuse installed in the built-in control are T5A / 250V

⚠ The user must protect the indoor unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.

⚠ Ensure that the mains voltage corresponds to that on the rating plate/label. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.

⚠ Check the socket is suitable for the plug, otherwise have the socket changed.

⚠ The appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III conditions and these means must be incorporated in the fixed wiring in accordance with the wiring rules.

⚠ The air conditioner must be installed by professional or qualified persons.

⚠ Do not install the appliance at less than 50cm from flammable substances (eg alcohol) or from pressurised containers (eg spray cans).

⚠ If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a fire hazard.

⚠ The packaging materials are recyclable and should be disposed of in separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal/recycling.

⚠ Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition & situation. As with any electrical household appliance – common sense and caution are always recommended during installation, operation & maintenance.

⚠ The appliance must be installed in accordance with applicable national regulations.

⚠ Before accessing the terminals, all power circuits must be disconnected from the power supply.

⚠ This appliance can be used by children aged 8 years or above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge – if they have supervision or been given instruction concerning use of the appliance in a safe way & understand the hazards involved. Children shall not play with the appliance. Cleaning & user maintenance shall not be conducted by children without supervision.

## SAFETY RULES AND RECOMMENDATIONS FOR THE USER

⚠ Do not try to install the air conditioner alone; always contact specialized technical personnel.

⚠ Cleaning & maintenance must be carried out by specialized technical personnel. Always disconnect the appliance from the mains electricity before carrying out cleaning & maintenance.

⚠ Ensure that the mains voltage corresponds to that on the rating plate/label. Keep the switch or power plug clean. Insert the power plug correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.

⚠ Do not pull out the plug to switch off the appliance when it is in operation, since this can cause sparks and cause a fire.

⚠ This appliance has been made for domestic air conditioning environments and must not be used for any other purpose (such as drying clothes, cooling food etc)

⚠ The packaging materials are recyclable and should be disposed of in separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal/recycling.

⚠ Always use the appliance with the air filter fitted. The use of the air conditioner without the filter fitted may cause excessive accumulation of dust & cause subsequent failures.

⚠ The user is responsible to have the air conditioner installed by a qualified technician. It is important this item is earthed (grounded) in accordance with current legislation & operated by a thermomagnetic circuit breaker.

⚠ The batteries in the remote controller must be disposed of responsibly or recycled.

Please discard batteries at a designated collection point. Do not discard batteries into regular municipal waste.

⚠ Never remain directly exposed to the flow of cold air for long time. The direct and prolonged exposure to cold air can be dangerous to your health. Particular care should be taken in rooms where children, elderly or the sick are located.

⚠ If the appliance gives off smoke or there is a burning smell, immediately cut off the power supply and contact Binatone Service Centre.

⚠ The prolonged use of the device in such conditions could cause fire or electrocution.

⚠ Have repairs carried out by an authorised Binatone Service Centre. Incorrect repair could expose the user to the risk of electrical shock.

⚠ Unhook the automatic switch if you do not use the appliance in a long time. The airflow direction must be properly adjusted

⚠ The flaps must be directed downwards in the heating mode (where fitted) and upwards in the cooling mode.

⚠ Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition & situation. As with any electrical household appliance – common sense and caution are always recommended during installation, operation & maintenance.

⚠ Ensure the appliance is disconnected from the power supply when not in use for a long period and before carrying out cleaning & maintenance.

⚠ Selecting the most suitable temperature can prevent damage to the appliance.



## SAFETY RULES AND PROHIBITIONS

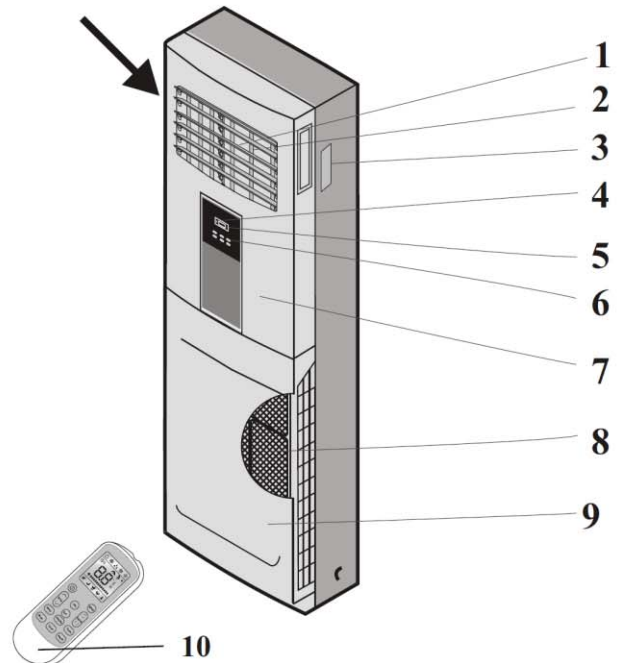
- ⊖ Do not bend, tug or compress the power cord, to avoid damage. Damaged power cord can lead to fire & electric shock risk. Power cord should only be replaced by authorised technical personnel or by an authorised Binatone Service Centre.
- ⊖ Do not use extension cord.
- ⊖ Do not touch the appliance when barefoot or if your body is wet/damp.
- ⊖ Do not obstruct the air inlet and air outlet of both the indoor and outdoor units. Obstruction may cause a reduction in operational efficiency and may lead to premature damage and failure.
- ⊖ Do not make any modifications to the appliance.
- ⊖ Do not install the appliance in environments where there is airborne gas, oil or sulphur. Also never install near sources of heat.
- ⊖ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities unless they are under supervision or have been given instruction on the use of the appliance by a person responsible for their safety.
- ⊖ Do not climb onto or place heavy or hot objects on top of the appliance (both indoor and outdoor units)
- ⊖ Do not leave windows or doors open for long when the air conditioner is operating.
- ⊖ Do not direct the airflow onto plants or animals. Prolonged exposure to cold air flow could have negative effects on the health of plants & animals.
- ⊖ Do not let the air conditioner contact with water – the units maybe damaged and could lead to electrocution risk.
- ⊖ Never insert objects into the appliance, to avoid damage to the units and injury to users.
- ⊖ Children should be supervised to ensure they do not play with the appliance.

# NAMES OF THE PARTS

## INDOOR UNIT

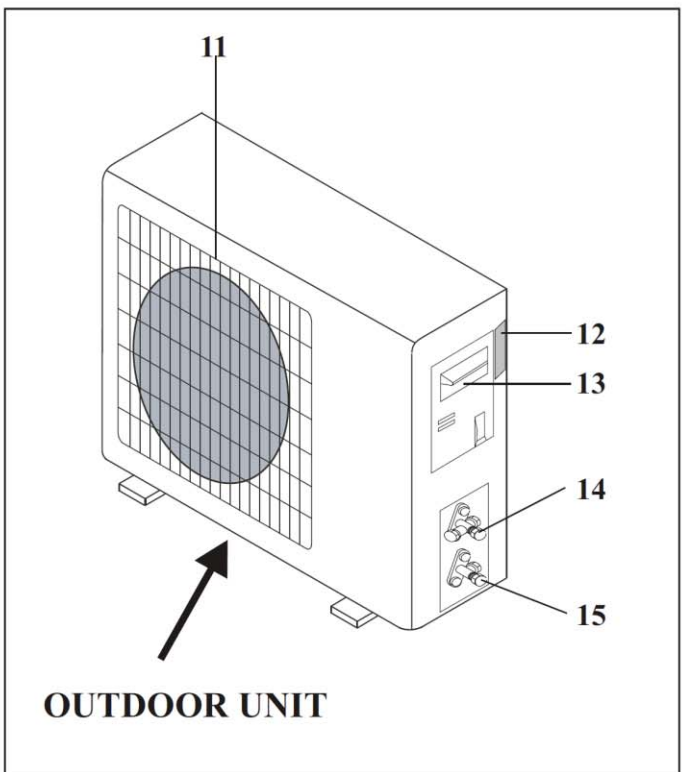
No.	Description
1	Airflow direction flaps
2	Deflectors
3	Indoor unit rating label
4	Signal receiver
5	LED Display
6	Control panel
7	Front panel
8	Air filter
9	Front panel
10	Remote controller

## INDOOR UNIT



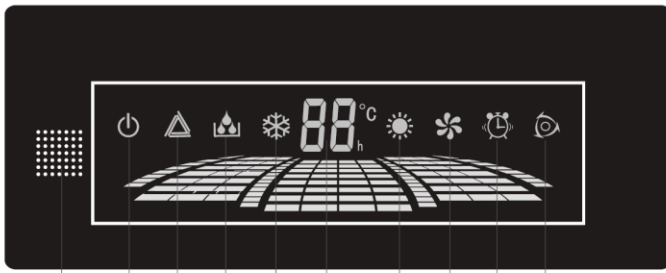
## OUTDOOR UNIT

No.	Description
11	Air outlet grille
12	Outdoor unit rating label
13	Terminal block cover
14	Gas valve
15	liquid valve



*Note: the above figures are only intended to be a simple diagram of the appliance and may not correspond to the appearance of the units that have been purchased.*

# INDOOR UNIT DISPLAY



Signal receptor  
1 2 3 4 5 6 7 8 9

2 4 6 17 8 18 10 11



7 3 16 15 5 8 14-13-12



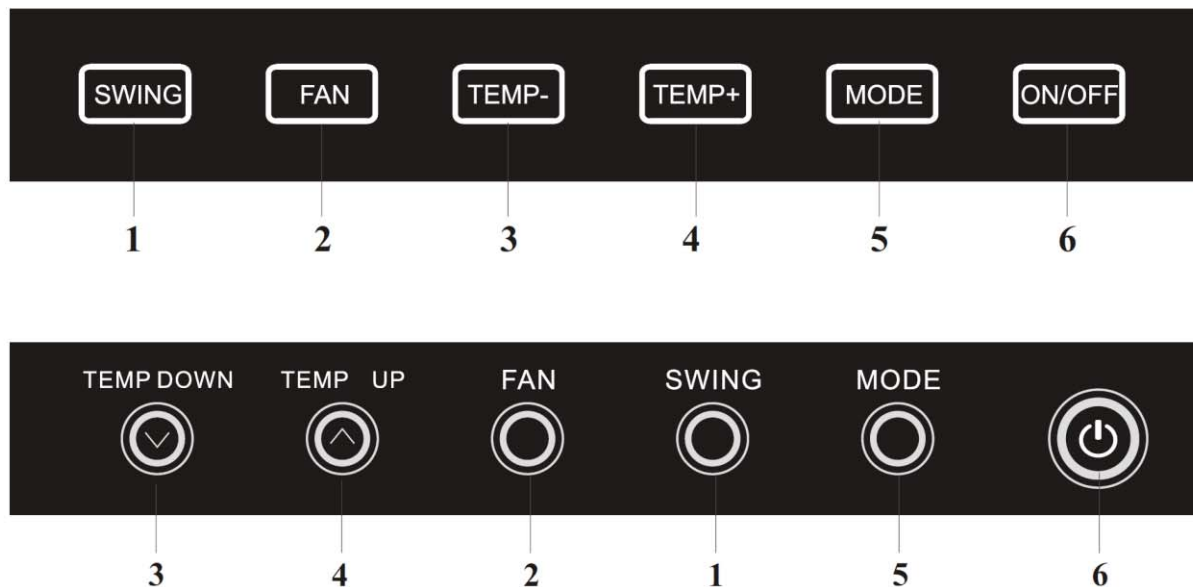
Signal receptor  
4 3 5 7 6




The shape and position of indicators may vary according to the model, but their function is the same.

No.	Led	Function
1		Shows that the unit is powered
2		FEEL mode indicator
3		DEHUMIDIFYING indicator
4		COOLING indicator
5		Indicates the set temperature in °C or ° F or time in Hour
6		HEATING indicator, flashes in defrost circle and Anti-Cold Air function,
7		FAN ONLY OPERATION indicator
8		TIMER mode
9		HEALTHY indicator
10		ECO indicator
11		SUPER indicator
12		HIGH FAN SPEED indicator
13		MIDDLE FAN SPEED indicator
14		LOW FAN SPEED indicator
15		“FLAP” SWING indicator
16		SLEEP indicator
17		DEFLECTORS SWING indicator
18		ANTI-MILDEW indicator

# INDOOR UNIT CONTROL PANEL



No.	Button	Function
1	SWING	To activate or deactivate of the movement of the “Flaps” and deflectors .
2	FAN	To select the fan speed of auto/low/mid/high
3	TEMP-	Decrease the temperature or time by 1 unit
4	TEMP+	Increase the temperature or time by 1 unit
5	MODE	To select the mode of operation
6	ON/OFF	To switch the conditioner on and off.
7	COMPOSITE BUTTON	Keep pressing the SWING button on the control panel for 3 seconds ( two beeps), then press the button "TEMPUP" activates the "flaps" the air flow is directed from up to down and press the button "TEMP DOWN" activates the "deflectors" the air flow is directed from rightward or leftward.

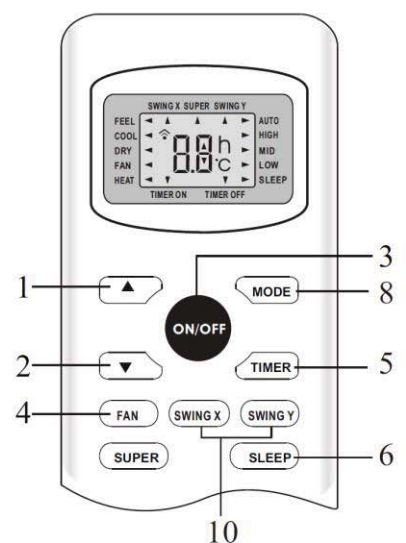
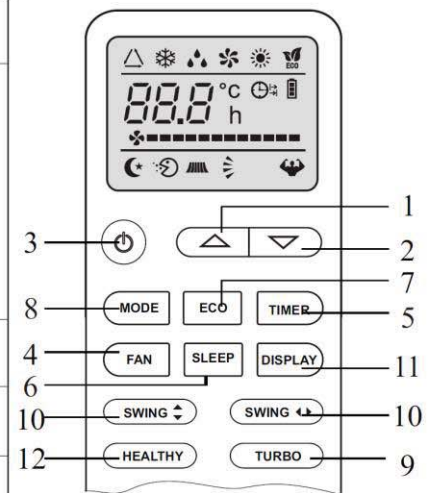
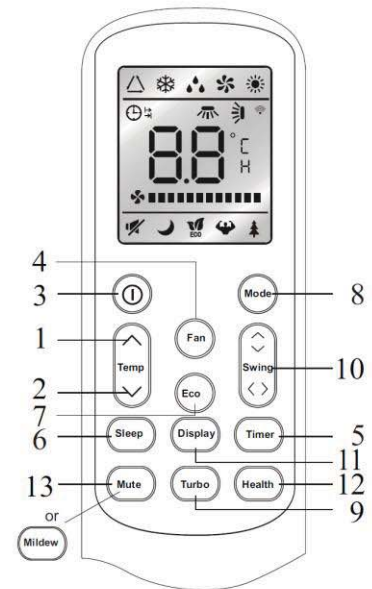
 *The shape and position of the emergency button may be different according to the model, but their function is the same.*

Remark: the external static pressure of heat pumps is 0 Pa for all models.



# REMOTE CONTROLLER

No.	Button	Function
1	▲ (TEMP UP)	Press it to increase temperature / time setting.
2	▼ (TEMP DN)	Press it to decrease temperature/ time setting.
3	ON/OFF	Press it to start or stop operation.
4	FAN	To select the fan speed of auto/low/mid/high
5	TIMER	Press it to set auto-off timer.
6	SLEEP	To activate the function "SLEEP"
7	ECO	In cooling mode,press this button ,the temperature will increase 2°C on the base of setting temperature In heating mode, press this button, the temperature will decrease 2°C on the base of setting temperature
8	MODE	To select the mode of operation
9	SUPER or TURBO	Press this button to activate / deactivate the Super function which enables the unit to reach the preset temperature in the shortest time. In COOL mode, the unit will give the maximum cooling temperature with 16°C,high fan speed. In HEATode, the unit will give the maximum heating temperature with 31°C,high fan speed.
10	SWING	To activate or deactivate of the movement of the deflectors.
11	DISPLAY	To switch on/off the LED display
12	HEALTHY	To switch - on /off HEALTHY funtion.It is a button which controls the ionizer or plasma generator only for inverter models.
13	MILDEW or Mute	To activate the function ANTI-MILDEW or To activate the function of Mute



⚠ The out looking and some function of remote controller maybe difference.

⚠ The shape and position of buttons and indicators maybe difference according to the model, but their function is the same.

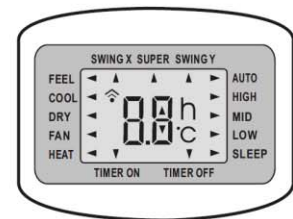
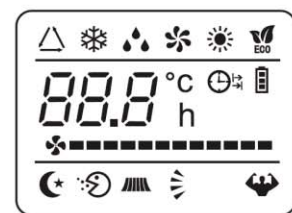
⚠ The unit confirms the correct reception of each press button with a beep.

# REMOTE CONTROLLER

## Remote controller DISPLAY

### Meaning of symbols on the liquid crystal display

No.	Symbols	Meaning
1		FEEL mode indicator
2		COOLING indicator
3		DEHUMIDIFYING indicator
4		FAN ONLY OPERATION indicator
5		HEATING indicator
6		SIGNAL RECEPTION indicator
7		TIMER OFF indicator
8		TIMER ON indicator
9	AUTO or	AUTO FAN indicator
10	LOW or	LOW FAN SPEED indicator
11	MIDDLE or	MIDDLE FAN SPEED indicator
12	HIGH or	HIGH FAN SPEED indicator
13	SLEEP or  or	SLEEP indicator
14		COMFORTABLE SLEEP indicator (optional)
15		FEEL indicator(optional)
16	SWING or  or	FLAP SWING indicator
17		FLAP and Deflectors SWING indicator (3D)
18	or TURBO	SUPER indicator
19	or	HEALTHY indicator
20	ECO or	ECO indicator
21	or	BATTERY indicator
22		CLOCK indicator
23		Mute indicator





# REMOTE CONTROLLER

## Replacement of Batteries

Remove the battery cover plate from the rear of the remote controller, by sliding it in the direction of the arrow.

Install the batteries according the direction (+and -)shown on the Remote Controller.

Reinstall the battery cover by sliding it into place.

⚠ Use 2 LRO 3 AAA (1.5V) batteries . Do not use rechargeable batteries . Replace the old batteries with new ones of the same type when the display is no longer legible.

Do not dispose batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

⚠ Refer to picture 1:

i. When you open the battery cover, you can see a DIP switch on the cover back.l

DIP switch on position	Function
°C	The remote controller is adjusted in degree celsius
°F	The remote controller is adjusted in degree fahrenheit.
Cool	The remote controller is adjusted in only cooling mode
Heat	The remote controller is adjusted in cooling and heating mode

ii. NOTE:After adjusting the function, you need to take out the batteries and repeat the procedure described above.

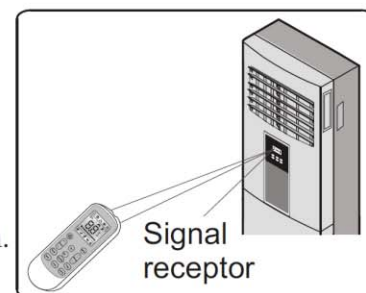
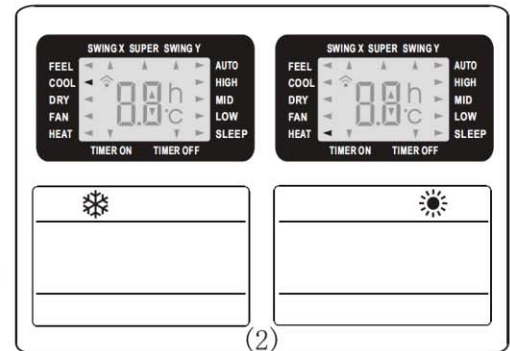
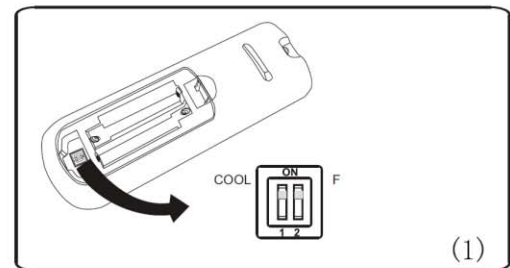
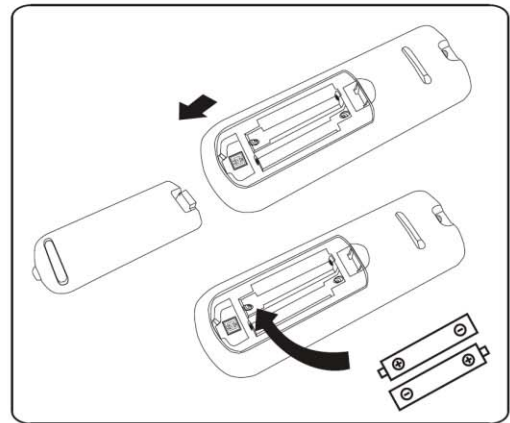
⚠ Refer to picture 2:

When you insert the batteries for the first time in the remote controller or if you change them, you need to program the remote controller of only cooling or cooling and heating.

When you insert the batteries, the symbols ❄ (COOL ■) and ☀ (HEAT ■) start flashing. If you push whatever button when the symbol ❄ (COOL ■) is displayed, the remote controller is adjusted in only cooling mode . If you push whatever button when the symbol ☀ (HEAT ■) is displayed , the remote controller is adjusted in Cooling and heating mode.

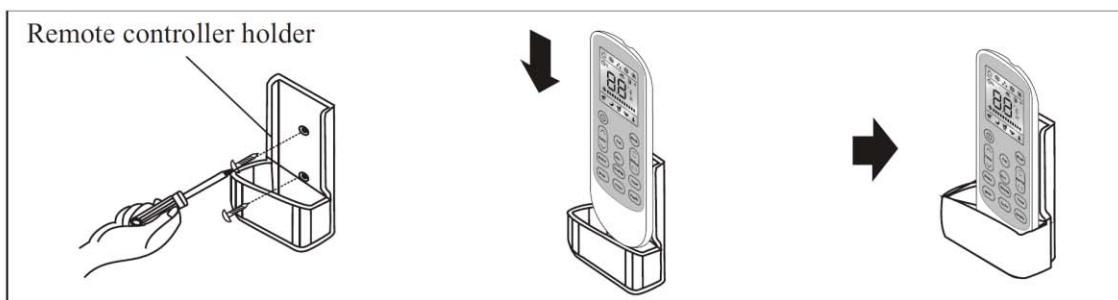
⚠ NOTE:if you adjust the remote controller in cooling mode, it will not be possible to activate the heating function in units with heating pump . you need to take out the batteries and repeat the procedure described above.

- ⚠
1. Direct the remote controller toward the Air conditioner.
  2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
  3. Never leave the remote controller exposed to the rays of the sun.
  4. Keep the remote controller at a distance of at least 1m from the television or other electrical appliances.



Recommendations for locating and using the remote controller holder (if present)

The remote controller be kept in a wall-mounted holder

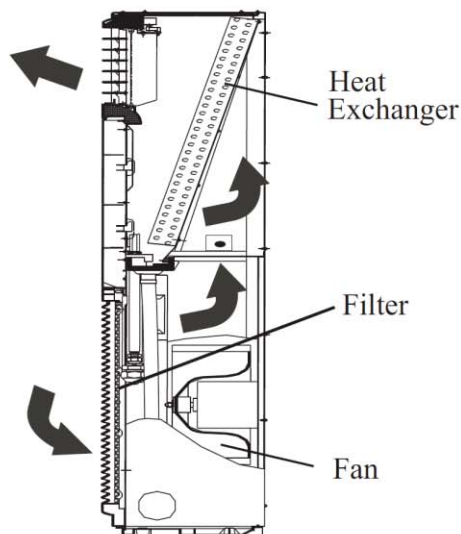




# OPERATING INSTRUCTIONS

The air sucked by the fan enters from the grill and passes through the filter, then it is cooled/dehumidified or heated through the heat exchanger.

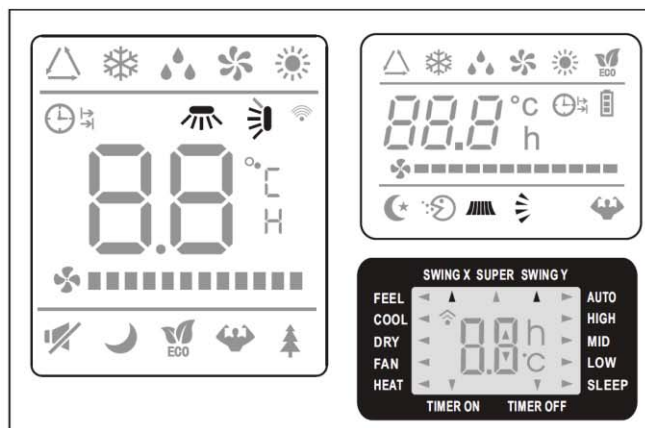
The direction of the air outlet is motorized up and down by flaps, and manually moved right and left by the vertical deflectors, for some models, the vertical deflectors could be controlled by motor as well.



## “SWING” CONTROL OF THE AIR FLOW



- The air outlet flow is uniformly distributed in the room.
  - It is possible to position the direction of the air in the optimal solution.
- The key **SWING** or **SWING↔** activates the “deflectors”, the air flow is directed alternatively from left to right. In order to guarantee an even diffusion of the air in the room.

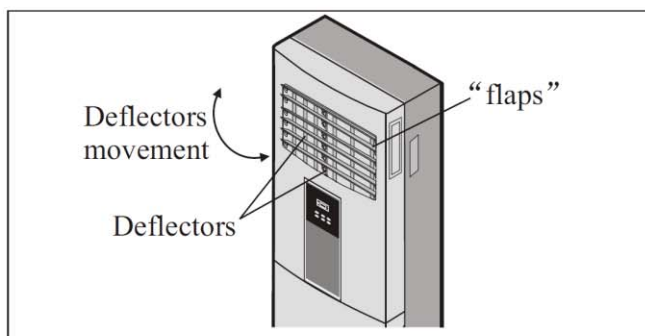
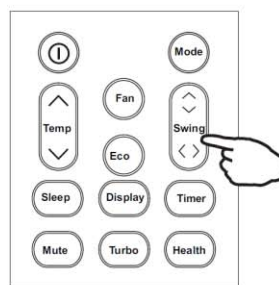


The key **SWING↕** activates the motorized “deflectors”, the air flow is directed alternatively from up to down. (Optional function, depends on the models)

The deflectors are positioned manually and placed in front of the flaps. They allow to direct the air flow upwards and downwards.

**⚠** Never position “deflectors” manually, the delicate mechanism might seriously damaged!

**⚠** Never poke fingers, sticks or other objects in the air inlet or outlet vents. Such accidental contact with live parts might cause unforeseeable damage or hurt.



# MODES OF OPERATION

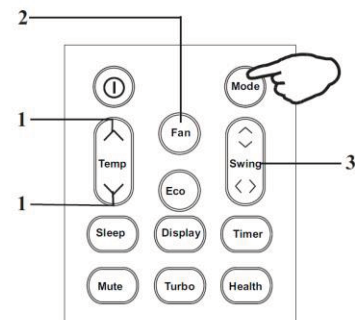
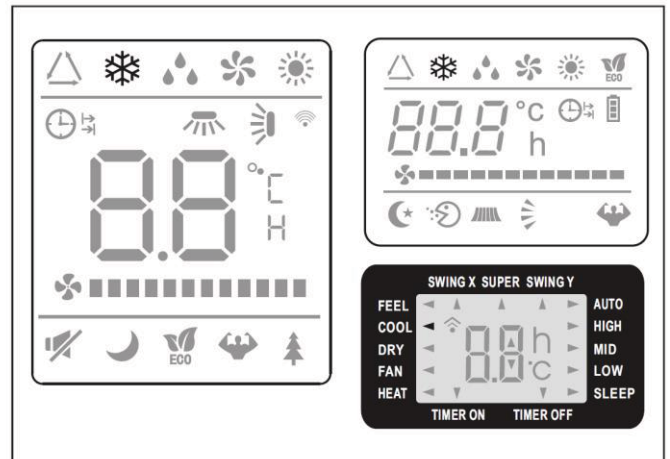
## COOLING MODE

**COOL** ■ The cooling function allows the air conditioner to cool the room and at the same time reduces Air humidity.

To activate the cooling function ( COOL ), press the **MODE** button until the symbol ❄️ ( COOL ■ ) appears on the display.

The cooling function is activated by setting the button ▲ or ▼ at a temperature lower than that of the room.

To optimize the function of the Air conditioner, adjust the temperature ( 1 ), the speed ( 2 ) and the direction of the air flow ( 3 ) by pressing the button indicated.



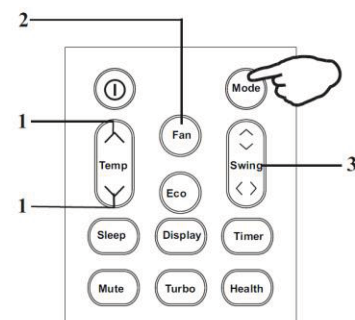
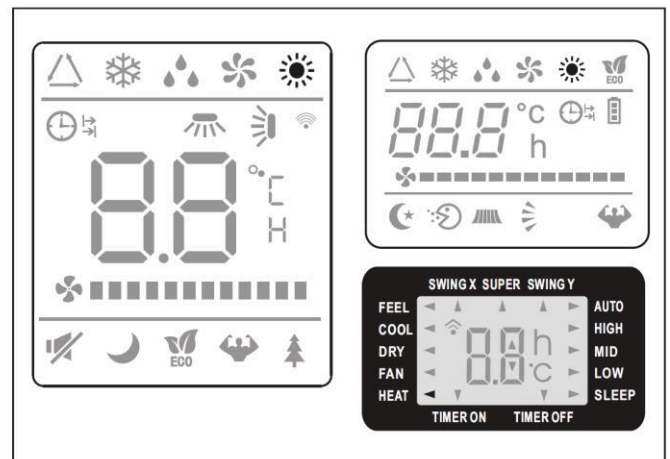
## HEATING MODE

**HEAT** ■ The heating function allows the air conditioner to heat the room.

To activate the heating function ( HEAT ), press the **MODE** button until the symbol ☀️ ( HEAT ■ ) appears on the display.

With the button ▲ or ▼ set a temperature higher than that of the room..

To optimize the function of the Air conditioner adjust the temperature ( 1 ), the speed ( 2 ) and the direction of the air flow ( 3 ) by pressing the button indicated




- ⚠️ If the appliance is fitted with a electrical heater, which delays appliance to startup in a few seconds to ensure an immediate output of hot air (Optional , depends on the model).
- ⚠️ In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser so as to recover its heat exchange function.This procedure usually lasts for 2-10 minutes during defrosting,indoor unit fan stop operation. After defrosting ,it resumes to HEATING mode automatically.



# MODES OF OPERATION

## TIMER MODE----TIMER ON

**ON**  
**TIMER**  To set the time of the air conditioner

To program the automatical switching-on time, the appliance should be power off.

Press **TIMER** at the first time , set the temperature with pressing the button **▲** or **▼**;

Press **TIMER** at the second time , set the rest time with pressing the button **▲** or **▼**;

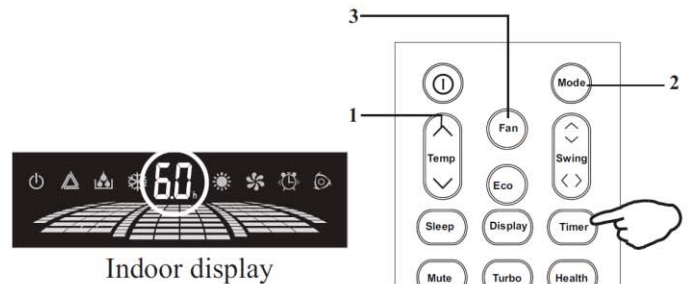
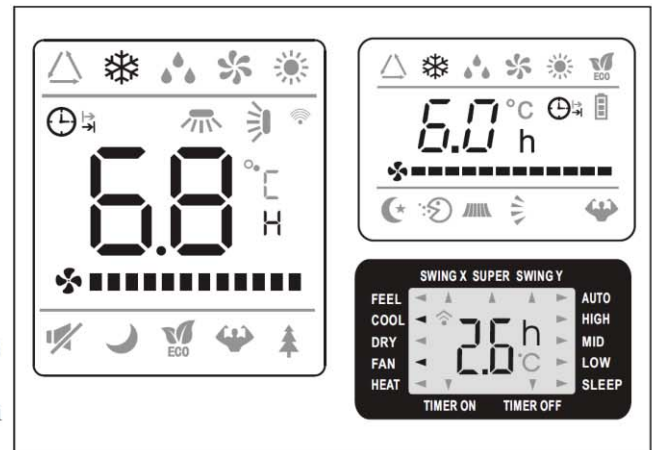
Press **TIMER** at the third time, confirm the setting, then the rest time to next automatical switching-on could be read on the display.

### NOTE !

Before proceeding with the time: program the working mode with the button **MODE** (2) and the fan speed with the button **FAN** (3) . Switch the conditioner off (with the key **ON/OFF** ) .


Note:To cancel the setted function ,press the **TIMER** button again.

Note:In case of power off,it is necessary to set **TIMER ON** again



Indoor display

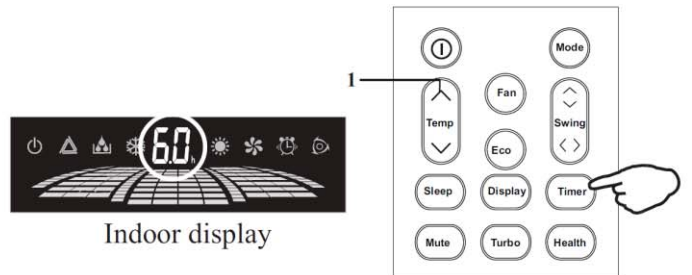
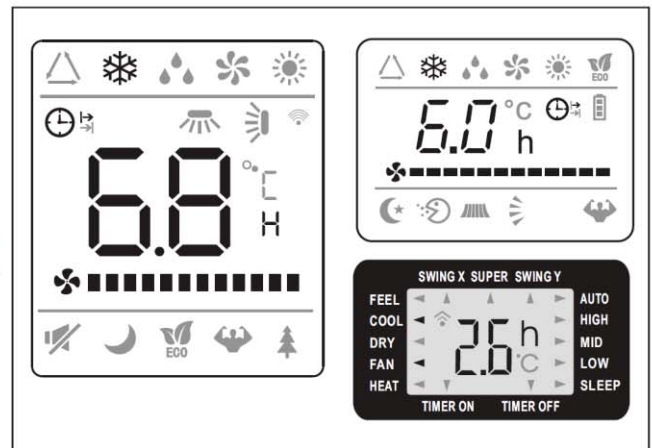
## TIMER MODE----TIMER OFF

**OFF**  
**TIMER**  To set the automatic switching-off of the air conditioner


The timed stop is programmed by pressing **TIMER** , Set the rest time by pressing the button **▲** or **▼**,until the rest time displayed is to your demand then press **TIMER** again.

Note:To cancel the setted function, press the **TIMER** button again.

Note:In case of power off,it is necessary to set **TIMER OFF** again



Indoor display


 Note: The **TIMER** function can be set at half-hour intervals.

# MODES OF OPERATION

## FAN MODE

FAN ■ 

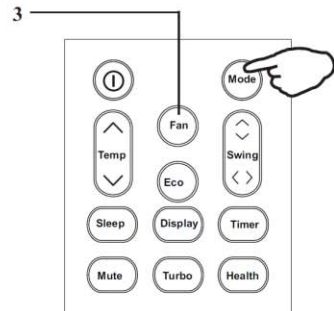
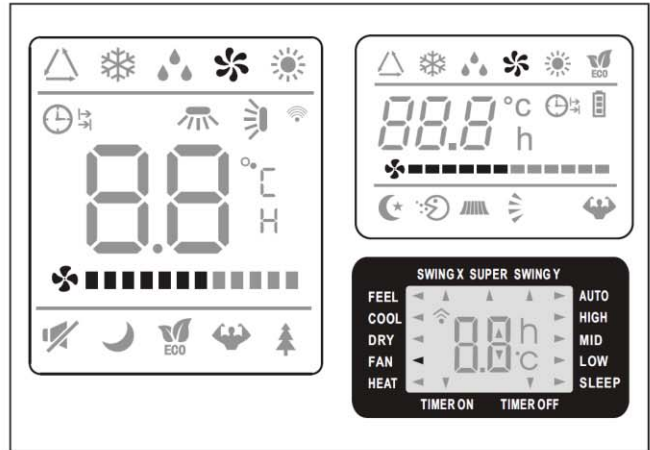
The conditioner works in only ventilation.

To set the FAN mode, Press **MODE** until  ( FAN ■ ) appears in the display.

With pressing **FAN** button the speed changes in the following sequence: LOW/ MEDIUM/HIGH /AUTO in FAN mode.

The remote control also stores the speed that was set in the previous mode of operation.


In FEEL mode (automatic) the air conditioner automatically chooses the fan speed and the mode of operation (COOLING or HEATING).

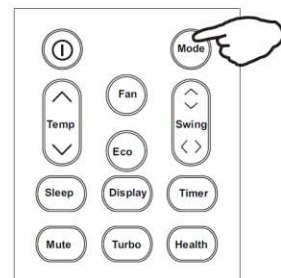
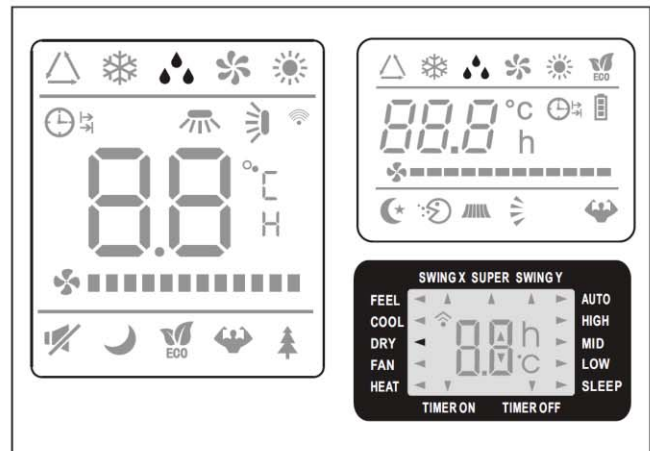


## DRY MODE

DRY ■ 

This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, Press **MODE** until  ( DRY ■ ) appears in the display. An automatic function of alternating cooling cycles and air fan is activated.



# MODES OF OPERATION

## FEEL MODE



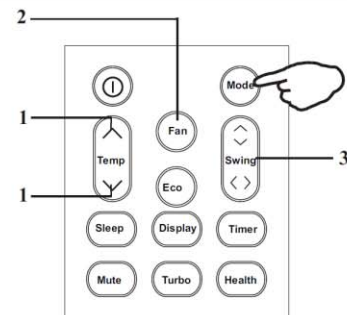
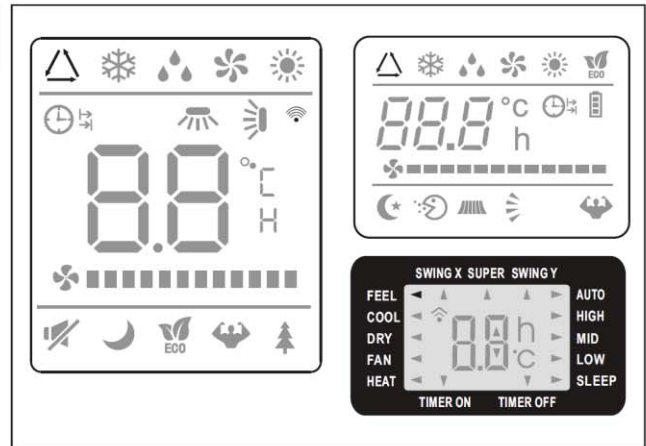
Automatic mode.

To activate the FEEL (automatic) mode of operation, press the **MODE** button on the remote controller until the symbol  $\triangle$  ( FELL  $\blacksquare$  ) appears on the display.

In FEEL mode the fan speed and the temperature are set automatically according to the room temperature (tested by the temperature sensor which is incorporated in the indoor unit).

Ambient temp	Operation mode	Auto temp.
< 20°C	HEATING ( FOR HEAT PUMP TYPE) FAN (FOR COOL ONLY TYPE)	23°C
20°C~26°C	DRY	18°C
> 26°C	COOL	23°C

To optimize the function of the air conditioner, adjust the temperature(only  $\pm 2^\circ\text{C}$  )(1), the speed (2) and the direction of the air flow (3) by pressing the buttons indicated



## SLEEP MODE

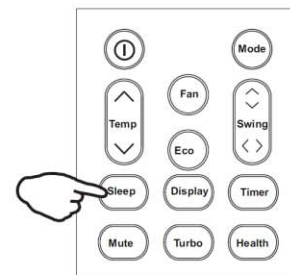
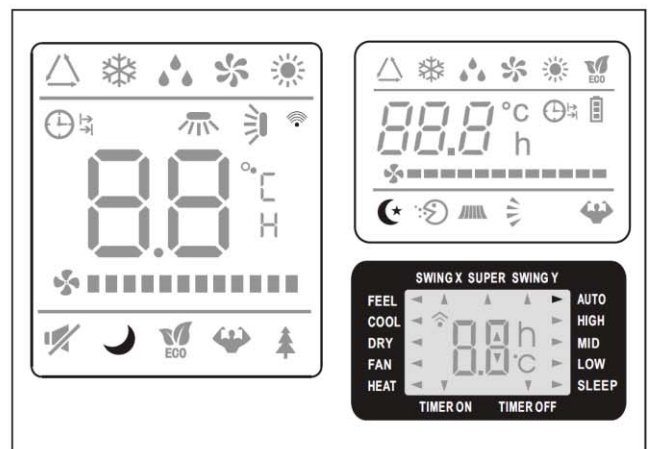


To activate the SLEEP mode of operation, press the **SLEEP** button on the remote controller until the symbol  $\text{☾}$  (AUTOQUIET ) appears on the display.

The function “SLEEP” automatically adjusts the temperature to make the room more comfortable during the night . In cooling or dry mode , the set temperature will automatically raise by  $1^\circ\text{C}$  every 60 minutes, to achieve a total rise of  $2^\circ\text{C}$  during the first 2 hours of operation.

In heating mode the set temperature is gradually decreased by  $2^\circ\text{C}$  during the first 2 hours of operation.

After 10 hours running in sleep mode the air conditioner is switched off automatically.





## PROTECTION


The air conditioner is programmed for comfortable and suitable living conditions, if it is used in abnormal conditions as below, certain safety protection features might come into effect.


### For T1 Climate condition models:

No.	MODE	Ambient temperature
1	Heating	Outdoor temperature is over 24°C
		Outdoor temperature is below -7°C
		Room temperature is over 27°C
2	Cooling	Outdoor temperature is over 43°C
		Room temperature is below 21 °C
3	Dry	Room temperature is below 18° C

### For Tropical (T3) Climate condition models:

No.	MODE	Ambient temperature
1	Heating	Outdoor temperature is over 24°C
		Outdoor temperature is below -7°C
		Room temperature is over 27°C
2	Cooling	Outdoor temperature is over 52°C
		Room temperature is below 21 °C
3	Dry	Room temperature is below 18° C

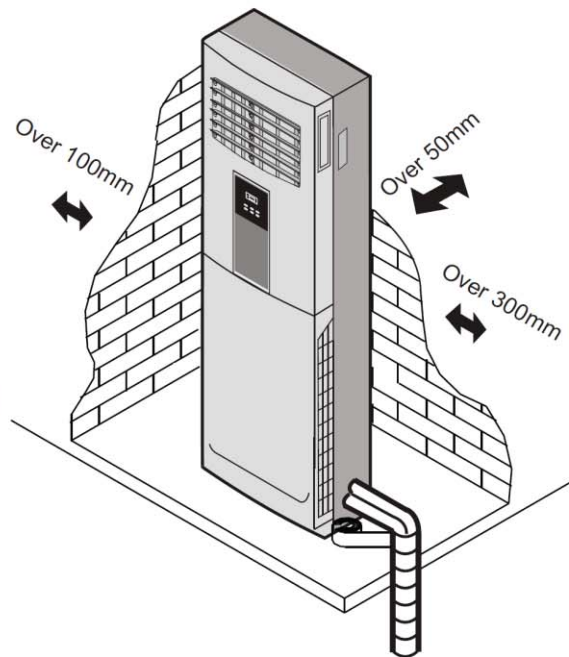
 *The unit does not operate immediately if it is turned on after being turned off or after changing the mode during operation. this is a normal self-protection action, you need wait for about 3 minutes.*

 *The capacity and efficiency are according to the test conducted at full-load operation\*.  
\*The highest speed of indoor fan motor and the maximum open angle of the flaps and deflectors are requested.*

# INSTALLATION MANUAL---Selecting the Installation Place

## INDOOR UNIT

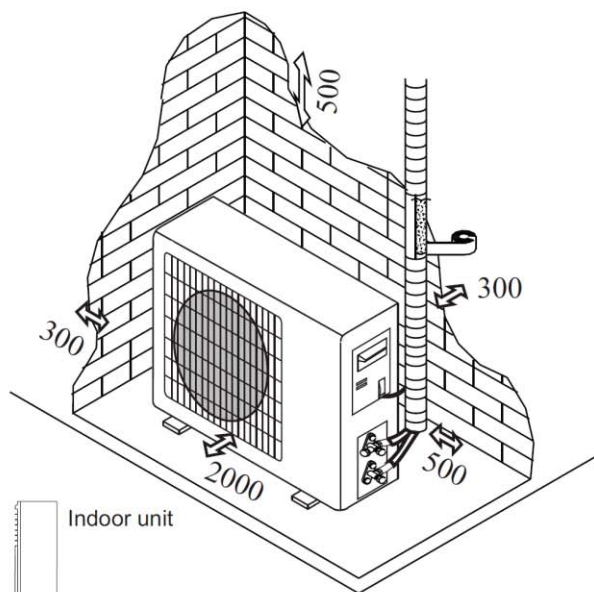
- Install the indoor unit on a strong wall that is not subject to vibrations.
- The in let and outlet ports should not be obstructed: the air should be able to blow all over the room.
- Do not install the unit near a source of heat, steam, or flammable gas.
- Install the unit near an electric socket or private circuit.
- Do not install the unit where it will be exposed to direct sunlight.
- Select a site where the condensed water can be easily drained out, and where it is easily connected to outdoor unit.
- Check the machine operation regularly and reserve the necessary spaces as shown in the picture.
- Select a place where the filter can be easily taken out.



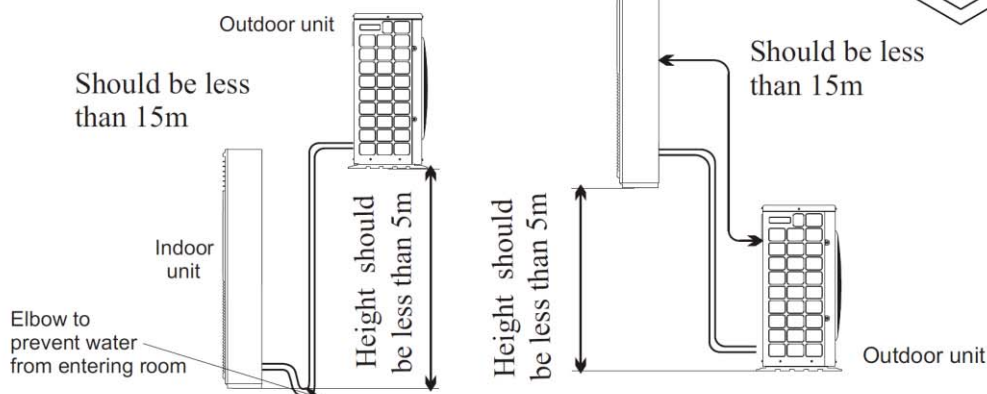
## OUTDOOR UNIT

- Do not install the outdoor unit near sources of heat, steam or flammable gas.
- Do not install the unit in too windy or dusty places.
- Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb the neighbours.
- Avoid installing the unit where it will be exposed to direct sunlight (otherwise use a protection, if necessary, that should not interfere with the air flow).
- Reserve the spaces as shown in the picture for the air to circulate freely.
- Install the outdoor unit in a safe and solid place.
- If the outdoor unit is subject to vibration, place rubber gaskets onto the feet of the unit.

minimum space to be reserved (mm) showing in the picture



## Installation Diagram



The purchaser must ensure that the person and/or company who is to install, maintain or repair this air conditioner has qualifications and experience in refrigerant products.



# INSTALLATION MANUAL---Installation of the Indoor unit

Before starting installation, decide on the position of the indoor and outdoor units, taking into account the minimum space reserved around the units

- ⚠ Do not install your air conditioner in a wet room such as a bathroom or laundry etc

*Note : The shape of the mounting plate may be different from the one above, but installation method is similar .*

## Drilling a hole in the wall for the piping

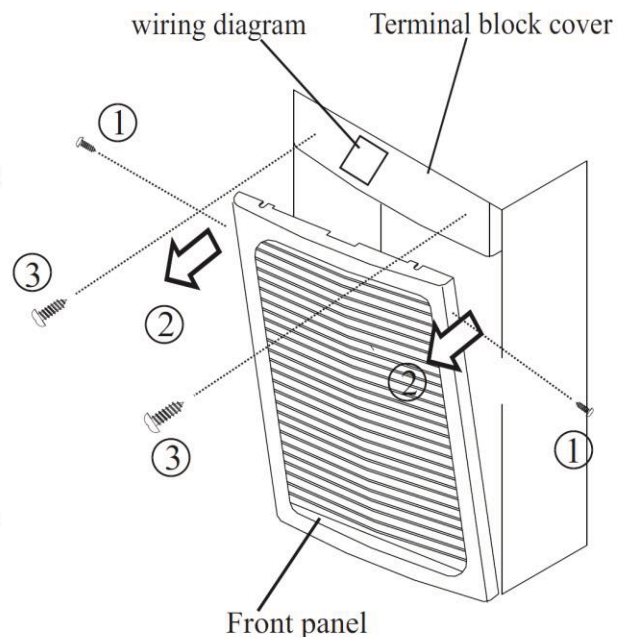
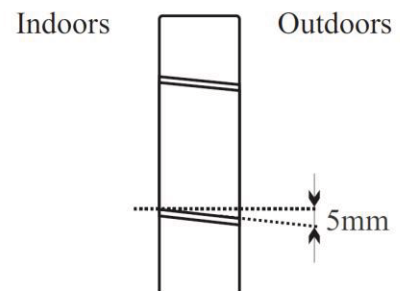
1. Decide where to drill the hole in the wall for the piping ( if necessary ) according to the position of the indoor unit;
2. Install a flexible flange through the hole in the wall to keep the latter intact and clean.

- ⚠ The hole must slope downwards towards the exterior

*Note : Keep the drain pipe down towards the direction of the wall hole, otherwise leakage may occur.*

## Electrical connections---Indoor unit

1. Take off the front panel as indicated in the picture ( by removing the screws )
  2. Take out the accessories from the indoor unit.
  3. Take off the cover as indicated in the picture ( by removing a screw ).
  4. For the electrical connections, see the circuit diagram on the right part of the unit under the front panel.
  5. Connect the cable wires to the screw terminals by following the numbering ,Use wire size suitable to the electric power input (see name plate on the unit) and according to all current national safety code requirements.
- ∟ The cable connecting the outdoor and indoor units must be suitable for outdoor use.
  - ∟ An efficient earth connection must be ensured.
  - ∟ If the power cable is damaged, it must be replaced by an authorised Service Centre.



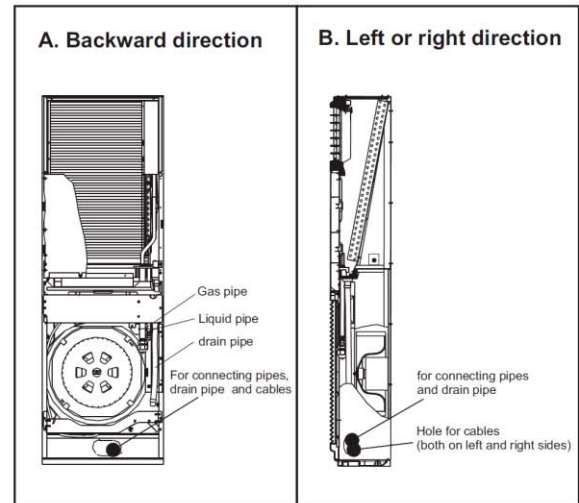
# INSTALLATION MANUAL---Installation of the Indoor unit

## Refrigerant piping connection

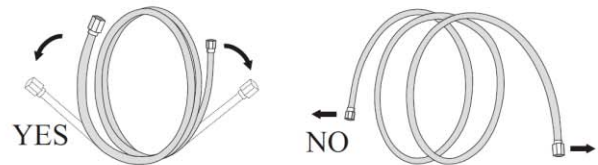
The piping can be run in the 3 directions indicated by numbers in the picture . Select a most suitable one for installation convenience.

Run the piping in the direction of the wall hole and bind the copper pipes , the drain pipe and the power cables together with the tape with the drain pipe at the bottom, so that water can flow freely.

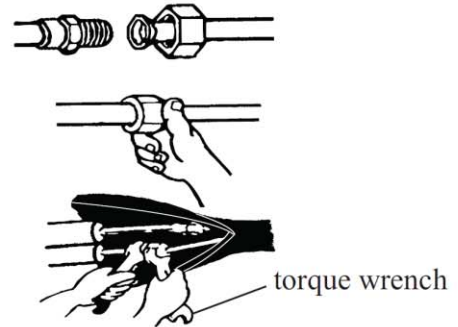
- Do not remove the cap from the pipe until connecting it, to avoid dampness or dirt from entering.
- If the pipe is bent or pulled too often , it will become stiff . Do not bend the pipe more than three times at one point.
- When extending the rolled pipe, straighten the pipe by unwinding it gently as shown in the picture.



Shape the connection pipe



Extending the rolled pipe



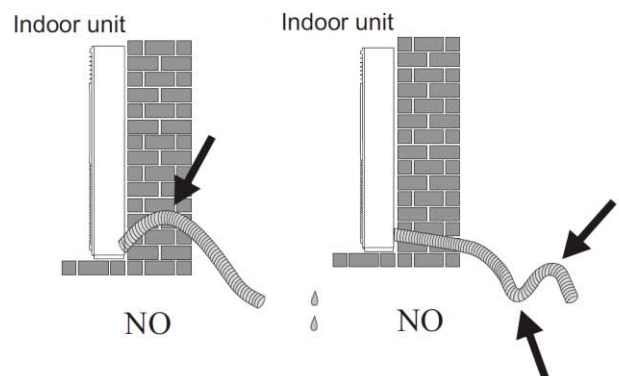
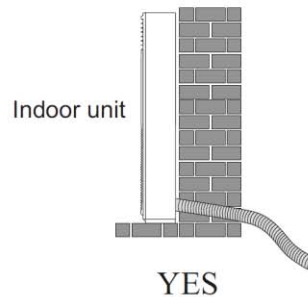
## Connections to the indoor unit

1. Remove the indoor unit pipe cap (check that there is no debris inside).
2. Insert the flare nut and create a flange at the extreme end of the connection pipe.
3. Tighten the connections by using two wrenches working in opposite directions

## Indoor unit condensed water drainage

The indoor unit condensed water drainage is fundamental for the success of the installation.

1. Place the drain hose below the piping, taking care not to create siphons.
2. The drain hose must slant downwards to aid drainage.
3. Do not bend the drain hose or leave it protruding or twisted and do not put the end of it in water . If an extension is connected to the drain hose , ensure that it is lagged when it passes into the indoor unit.



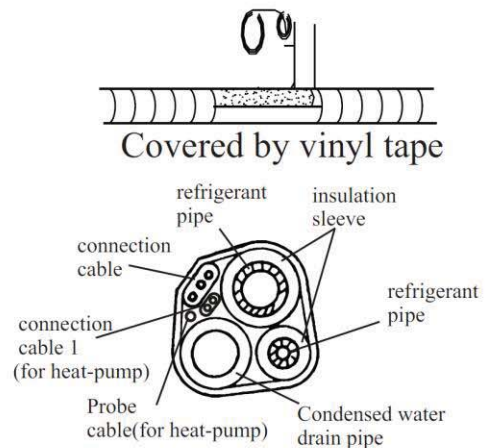


## INSTALLATION MANUAL---Installation of the Indoor unit

### INSTALLATION OF THE INDOOR UNIT

After having connected the pipe according to the instructions, install the connection cables. Now install the drain pipe. After connection, lag the pipe, cables and drain pipe with the insulating material.

1. Arrange the pipes, cables and drain hose well.
2. Lag the pipe joints with insulating material, securing it with vinyl tape.
3. Run the bound pipe, Cables and drain pipe through the wall hole and mount the indoor unit onto the upper part of the mounting plate securely.



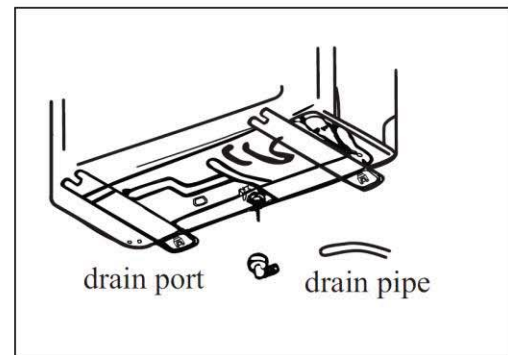
## INSTALLATION MANUAL---Installation of the outdoor unit

- The outdoor unit should be installed on a solid wall and fastened securely.
- The following procedure must be observed before connecting the pipes and connecting cables: decide which is the best position on the wall and leave enough space to be able to carry out maintenance easily.
- Fasten the support to the wall using screw anchors which are particularly suited to the type of wall;
- Use a larger quantity of screw anchors than normally required for the weight they have to bear to avoid vibration during operation and remain fastened in the same position for years without the screws becoming loose.
- The unit must be installed following the national regulations.

### Outdoor unit condensed water drainage (only for heat pump models)

The condensed water and the ice formed in the outdoor unit during heating operation can be drained away through the drain pipe

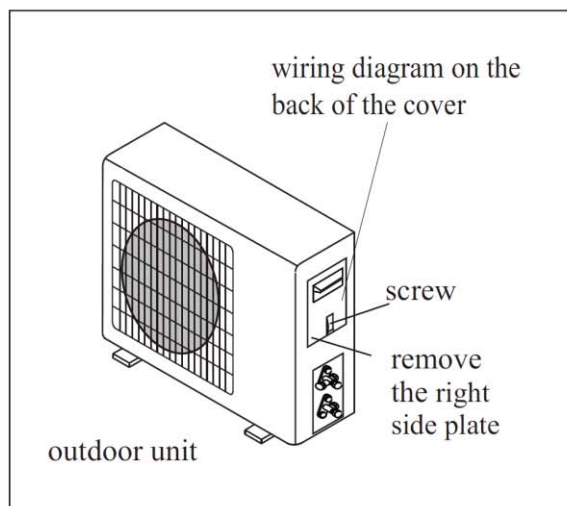
1. Fasten the drain port in the 25mm hole placed in the part of the unit as shown in the picture.
2. Connect the drain port and the drain pipe.  
Pay attention that water is drained in a suitable place.



# INSTALLATION MANUAL---Installation of the outdoor unit

## ELECTRICAL CONNECTIONS

1. Remove the handle on the right side plate of outdoor unit.
2. Connect the power connection cord to the terminal board.  
Wiring should fit that of indoor unit.
3. Fix the power connection cord with wire clamp.
4. Confirm if the wire has been fixed properly.
5. An efficient earth connection must be ensured.
6. Recover the handle.

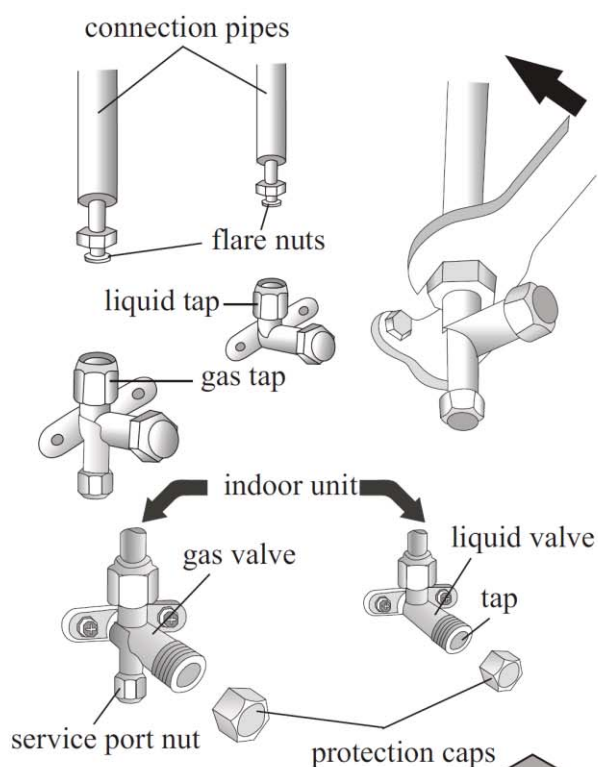


## CONNECTING THE PIPES

Screw the flare nuts to the outdoor unit coupling with the same tightening procedures described for the indoor unit.

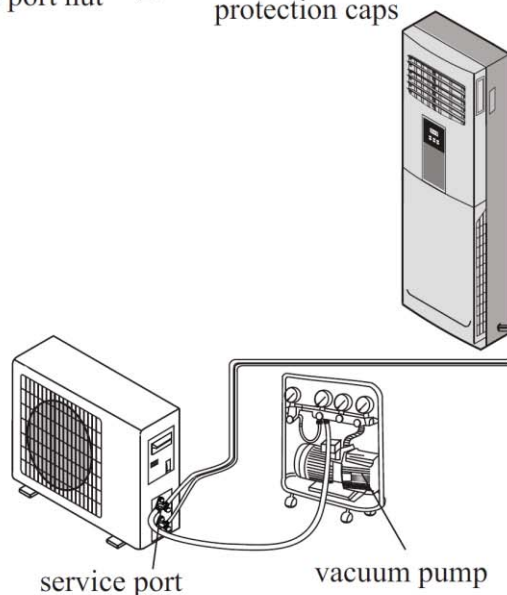
To avoid leakage, pay attention to the following points:

1. Tighten the flare nuts using two wrenches. Pay attention not to damage the pipes.
2. If the tightening torque is not sufficient, there will probably be some leakage. With excessive tightening torque there will also be some leakage, as the flange could be damaged.
3. The surest system consists in tightening the connection by using a fix wrench and a torque wrench: in this case use the table on page 22.



## BLEEDING

Air and humidity left inside the refrigerant circuit can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circuit by using a vacuum pump.



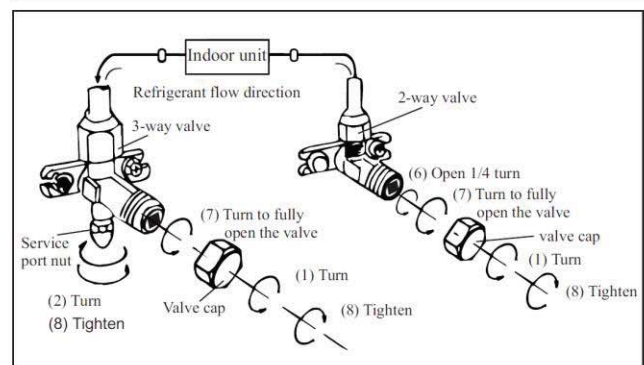
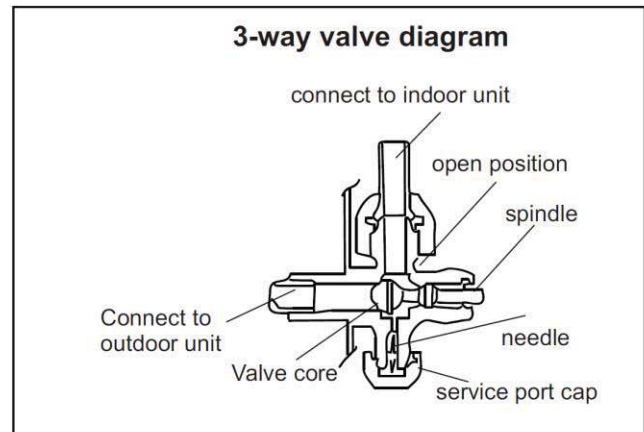


# INSTALLATION MANUAL---Installation of the outdoor unit

## BLEEDING

The air and humidity left inside the refrigerant circulation can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circulation using a vacuum pump.

- (1) Unscrew and remove the caps from the 2 - way and 3-way valves.
- (2) Unscrew and remove the cap from the service port.
- (3) Connect the vacuum pump hose to the service port.
- (4) Operate the vacuum pump for 10 - 15 minutes until an absolute vacuum of 10 mm Hg has been reached.
- (5) With the vacuum pump still in operation, close the low - pressure knob on the vacuum pump coupling. Stop the vacuum pump.
- (6) Open the 2 - way valve by 1/4 turn and then close it after 10 seconds. Check all the joints for leaks using liquid soap or an electronic leak device.
- (7) Turn the body of the 2-way and 3-way valves. Disconnect the vacuum pump hose.
- (8) Replace and tighten all the caps on the valves.



## INSTALLATION MANUAL--- operation test

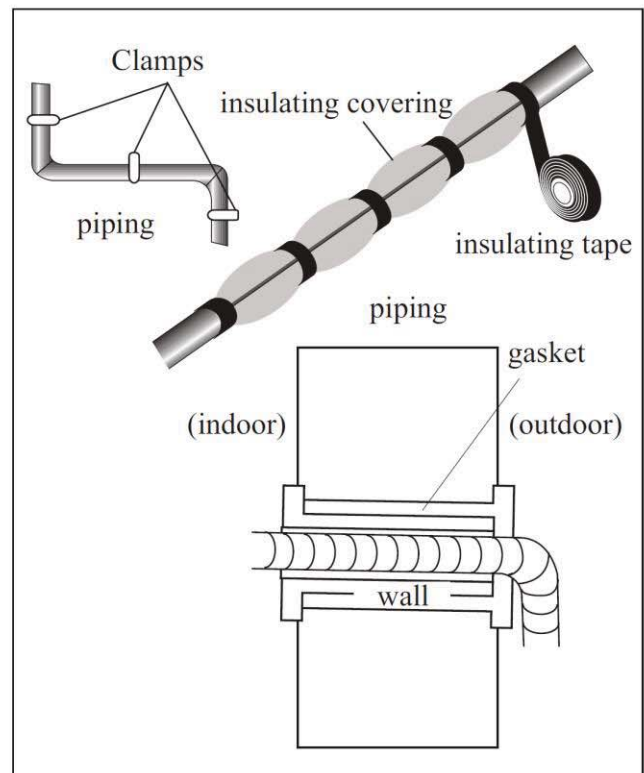
1. Wind insulating covering around the joints of the indoor unit and fix it with insulating tape.
2. Fix the exceeding part of the signal cable to the piping or to the outdoor unit.
3. Fix the piping to the wall ( after having coated it with insulating tape) using clamps or insert them into plastic slots.
4. Seal the hole in the wall through which the piping is passed so that no air or water can fill.

### Indoor unit test

- Do the ON/OFF and FAN operate normally?
- Does the MODE operate normally?
- Do the set point and TIMER function properly?
- Does each lamp light normally?
- Do the flap for air flow direction operate normally?
- Is the condensed water drained regularly?

### Outdoor unit test

- Is there any abnormal noise or vibration during operation?
- Could the noise, the air flow or the condensed water drainage disturb the neighbours?
- Is there any coolant leakage?



*Note: the electronic controller allows the compressor to start only three minutes after voltage has reached the system.*

# INSTALLATION MANUAL---Information for the installer

MODEL capacity (Btu/h)	18k	24k	36k	42k	48k		
Liquid pipe diameter	1/4 " (φ6)	3/8 " (φ9.52)	3/8 " (φ9.52)	1/2 " (φ12.70)	1/2 " (φ12.70)		
Gas pipe diameter	1/2 " (φ12)	5/8 " (φ15.88)	5/8 " (φ15.88)	3/4 " (φ19.05)	3/4 " (φ19.05)		
Lenght of pipe with standard charge	5m	5m	5m	5m	5m		
Maximum distance between indoor and outdoor unit	15m	15m	15m	15m	15m		
Additional refrigerant charge	50g/m	50g/m	50g/m	50g/m	100g/m		
Max. diff. in level between indoor and outdoor unit	5m	5m	5m	5m	5m		
Type of refrigerant(1)							

(1) Refer to the data rating label sticked on the outdoor unit.

## TIGHTENING TORQUE FOR PROTECTION CAPS AND FLANGE CONNECTION

PIPE	TIGHTENING TORQUE [N x m]	CORRESPONDING STRESS (using a 20 cm wrench)		TIGHTENING TORQUE [N x m]
1/4 " (φ6)	15 - 20	wrist strength	Service port nut	7 - 9
3/8 " (φ9.52)	31 - 35	arm strength	Protection caps	25 - 30
1/2 " (φ12)	35 - 45	arm strength		
5/8 " (φ15.88)	75 - 80	arm strength		
3/4 " (φ19.05)	90 - 95	arm strength		

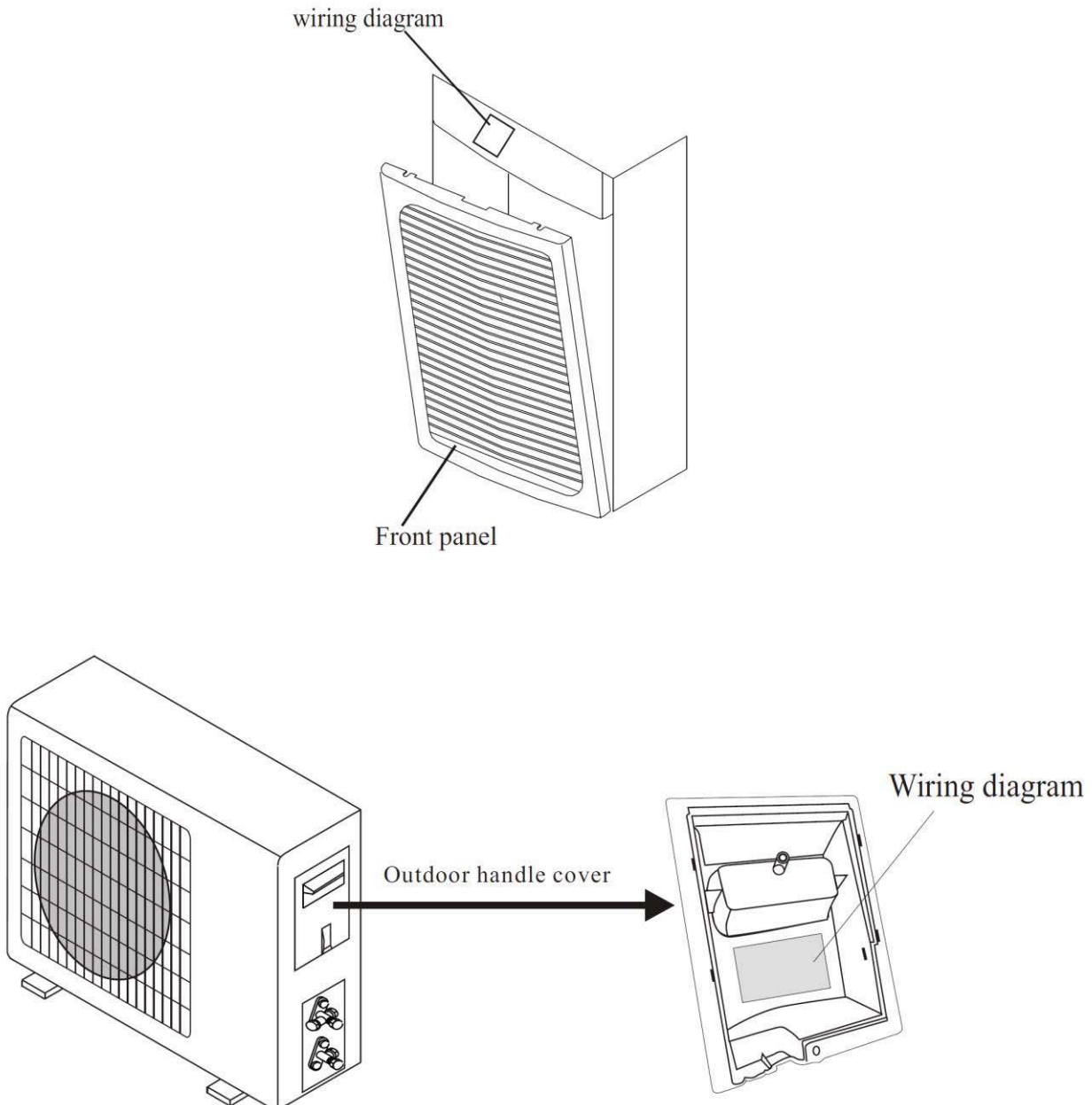
# INSTALLATION MANUAL---Information for the installer

## WIRING DIAGRAM

For different models, the wiring diagram may be different. Please refer to the wiring diagrams pasted on the indoor unit and outdoor unit respectively.

On indoor unit, the wiring diagram is pasted under the front panel;

On outdoor unit, the wiring diagram is pasted on the backside of the outdoor handle cover.






*Note: For some models the wires has been connected to the main PCB of indoor unit by manufacturer without terminal block.*



# INSTALLATION MANUAL---Information for the installer

## CABLE WIRES SPECIFICATION

MODEL capacity (Btu/h)		18k	24k	36k	42k	48k
		Sectional area				
Power supply cable	N	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> (4.0mm <sup>3</sup> )	—	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )
	L	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> (4.0mm <sup>3</sup> )	—	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )
	E 	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> (4.0mm <sup>3</sup> )	—	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )
	R(A)	—	—	—	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12
	S(B)	—	—	—	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12
	T(C)	—	—	—	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12
	N	—	—	—	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12
		—	—	—	2.5mm <sup>2</sup> AWG12	2.5mm <sup>2</sup> AWG12
Connection supply cable	N	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )	—
	L	—	2.5mm <sup>2</sup>	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )	—
		1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )	0.75mm <sup>2</sup> (1.5mm <sup>3</sup> )	—
	1	1.5mm <sup>2</sup>	0.75mm <sup>2</sup> (2.5mm <sup>3</sup> )	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
	2	0.75mm <sup>2</sup>	0.75mm <sup>2</sup> (2.5mm <sup>3</sup> )	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
	3	0.75mm <sup>2</sup>	0.75mm <sup>2</sup> (2.5mm <sup>3</sup> )	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
	4	—	—	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>

Type of fuse used on indoor unit controller is 50T with rating 5 A , 250V

# MAINTENANCE

Periodic maintenance is essential for keeping your air conditioner efficient.

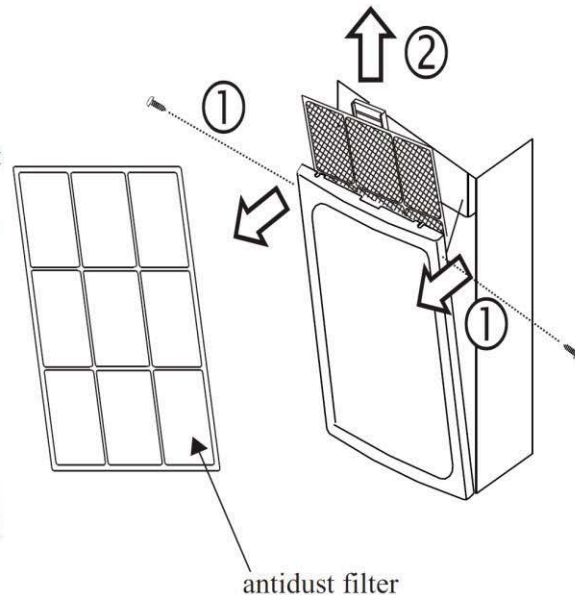
Before carrying out any maintenance, disconnect the power supply by putting the installation on/ off switch to "off".

## INDOOR UNIT

### ANTIDUST FILTERS

1. Open the front panel as indicated in the picture (by removing the screws)
2. Keeping the front panel raised with one hand, take out the air filter with the other hand
3. Clean the filter with water; if the filter is soiled with oil, it can be washed with warm water (not exceeding 45°C).  
Leave to dry in a cool and dry place.
4. Keeping the front panel raised with one hand, insert the air filter with the other hand
5. Close

The electrostatic and the deodorant filter (if installed) cannot be washed or regenerated and must be replaced with new filters once every 6 months.



### CLEANING THE HEAT EXCHANGER

1. Take off the front panel by removing the screws to make the cleaning easier.
2. Clean the indoor unit using a cloth with the water (not higher than 40°C) and neutral soap. Never use aggressive solvents or detergents.

### END OF SEASON MAINTENANCE

1. Disconnect the automatic switch or the plug.
2. Clean and replace the filters
3. On a sunny day let the conditioner work in ventilation for some hours, so that the inside of the unit can dry completely..

### REPLACING THE BATTERIES

When:

- There is no confirmation beep from the indoor unit.
- The LCD doesn't activate.

How:

- Take off the cover at back.
- Place the new batteries respecting the symbols + and -.

N.B: Use only new batteries. Remove the batteries from the remote control when the conditioner is not in operation

**WARNING!** Do not throw batteries into common rubbish, they should be disposed of in the special containers situated in the collection points.

# TROUBLESHOOTING

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Power failure/plug pulled out
	Damaged indoor/outdoor unit fan motor
	Faulty compressor thermomagnetic circuit breaker
	Faulty protective device or fuses.
	Loose connections or plug pulled out
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range
	Active TIMER-ON function
Damaged electronic control board	
Strange odour	Air filter dirty
Noise of running water	Back flow of liquid in the refrigerant circulation
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the "COOLING" or "DEHUMIDIFYING/DRY" modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, either hot or cold	Inappropriate temperature setting..
	Air inlet or outlet of indoor or outdoor unit has been blocked.
	Air filter is blocked.
	Fan speed set at minimum.
	Other sources of heat in the room.
The appliance does not respond to commands	No refrigerant.
	Remote control is not near enough to indoor unit.
	Battery in Remote controller may have been exhausted..
The display is off	Obstacles between remote control and signal receiver in indoor unit.
	Active LED function
	Power failure

## Switch off the air conditioner immediately and cut off the power supply in the event of:

- Strange noises during operation.
- Faulty electronic control board
- Faulty fuses or switches.
- Spraying water or objects inside the appliance.
- Overheated cables or plugs.
- Very strong smells coming from the appliance.

## ERROR SIGNALS ON THE DISPLAY

In case of error, the display on the indoor unit shown the following error codes:

	RUN lamp	Description of the trouble
<i>E1</i>	flashes once	The fault of indoor temperature sensor
<i>E2</i>	flashes twice	The fault of indoor pipe temperature sensor
<i>E5</i>	flashes 5 times	The protect of outdoor discharge temperature or wrong electrical connections or high current or high pressure

## SERVICE & CUSTOMER CARE

There are no user serviceable parts inside this appliance.

If the power cord or plug are damaged it must, for safety reasons, be replaced by Binatone or an authorised Binatone repairer.

If you need help with:

- using your product
- servicing or repairs (in or out of guarantee)

Please contact Binatone Customer Service at :

- [www.binatonelifestyle.com/reach-us/customer-service.html](http://www.binatonelifestyle.com/reach-us/customer-service.html)
- Facebook - Binatonelifestyle

Have your model number ready – it's on the rating label on your product

## WARRANTY

Binatone offers a 2-year warranty on this product.

If your product goes wrong within two years from the date you bought it, we will repair it (or replace it if necessary) free of charge provided:

- you have not misused, neglected or damaged it;
- it has not been modified (unless by Binatone);
- it is not second-hand;
- it has not been used commercially;
- you have not fitted a plug incorrectly; and
- you supply your receipt to show when you bought it.

This guarantee does not affect your statutory rights.



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