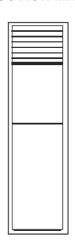
FLOOR STANDING AIR CONDITIONER **INSTRUCTION MANUAL**



This instruction manual contains important information and recommendations that we would ask you to comply with to obtain best results from air conditioner.

Thank you once again.

This instruction has an alternative format and you could obtain from our

封底

封面

技术要求

- 1 纸张边角应裁剪整齐; 印刷字迹清晰整洁、内容正确, 没有明显的拖墨和重影等缺陷;
- 2. 成品为A5版面, 纸质为70g/m², 未注公差按GB/T1804-c级; 3. 装订要求: 封面(见上)、内容(见下页)、封底(见上);

website: http://hao.tcl.com.

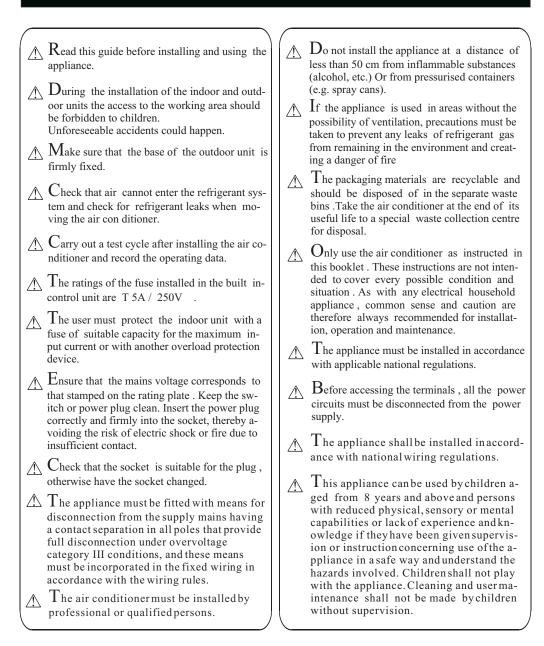
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SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER



SAFETY RULES AND RECOMMENDATIONS FOR THE USER

- ⚠ Do not try to install the conditioner alone; always contact specialized technical personnel.
- Cleaning and maintenance must be carried out by specialised technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
- Ensure that the mains voltage corresponds to that stamped on the rating plate. 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 could create a spark and cause a fire, etc.
- This appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
- The packaging materials are recyclable and should be disposed of in the sparate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal.
- Always use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
- The user is responsible for having the appliance installed by a qualified technician, who must check that it is earthed in accordance with current legislation and insert a thermomagnetic circuit breaker.
- ↑ The batteries in remote controller must be recycled or disposed of properly.

 Disposal of Scrap Batteries --- Please discard the batteries as sorted municipal waste at the accessible collection point.

- Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your health .Particular care should be taken in the rooms where there are children, old or sick people.
- If the appliance gives off smoke or there is a smell of burning, immediately cut off the pow er supply and contact the Service Centre.
- The prolonged use of the device in such conditions could cause fire or electrocution.
- Have repairs carried out only by an authorised Service Centre of the manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.
- ⚠ Unhook the automatic switch if you foresee not to use the device for a long time.

 The airflow direction must be properly adjusted.
- The flaps must be directed downwards in the heating mode and upwards in the cooling mode.
 - Only use the air conditioner as instructed in this booklet. These instructions are not int ended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
- Ensure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or 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 since this could damage it. Electrical shocks or fire are probably due to a damaged power cord. Specialised technical personnel only must replace a damaged power cord.
- Do not use extensions or gang modules.
- Do not touch the appliance when barefoot or parts of the body are wet or damp.
- Do not obstruct the air inlet or outlet of the indoor or the outdoor unit.

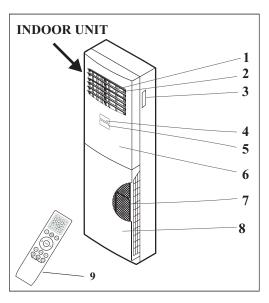
 The obstruction of these openings causes a reduction in the operative efficiency of the conditioner with possible consequent failures or damages.
- In no way alter the characteristics of the appliance.
- Do not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.
- This appliance is not intended for use 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.

- Do not climb onto or place any heavy or hot objects on top of the appliance.
- Do not leave windows or doors open for long when the air conditioner is operating.
- Do not direct the airflow onto plants or animals.
- A long direct exposition to the flow of cold air of the conditioner could have negative effects on plants and animals.
- Do not put the conditioner in contact with water.

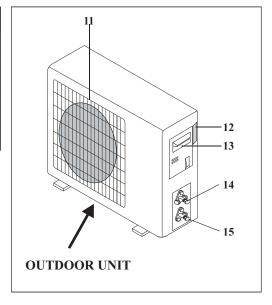
 The electrical insulation could be damaged
 - and thus causing electrocution.
- Oo not climb onto or place any objects on the outdoor unit
- Never insert a stick or similar object into the appliance. It could cause injury.
- Children should be supervised to ensure that they do not play with the appliance. 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.

NAMES OF THE PARTS

IND	INDOOR UNIT				
No.	Description				
1	Airflow direction flaps				
2	Deflectors				
3	Indoor unit rating label				
4	LED Display				
5	Touch panel				
6	Front panel				
7	Air filter				
8	Front panel				
9	Remote controller				

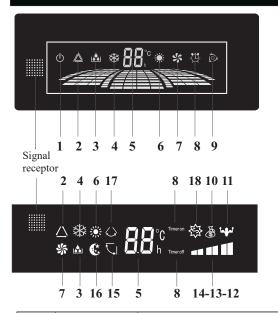


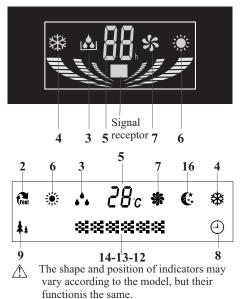
OUT	OUTDOOR UNIT				
No.	Description				
11	Air outlet grille				
12	Outdoor unit rating label				
13	13 Terminal block cover				
14 Gas valve					
15	liquid valve				



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.

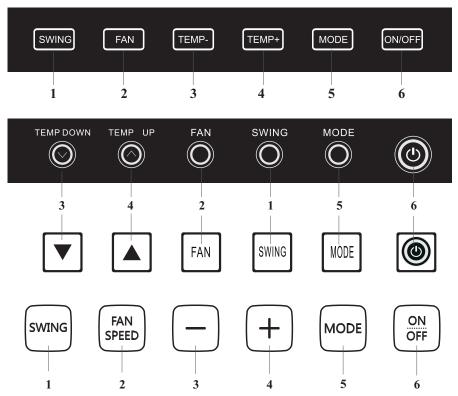
INDOOR UNIT DISPLAY





No.	Led	Function	
1	Ф	Shows that the unit is powered	
2	△ (Feel	FEEL mode indicator	
3	٨	DEHUMIDIFYING indicator	
4	*	COOLING indicator	
5	88.°	Indicates the set temperature in $^{\circ}$ C or $^{\circ}$ F or time in Hour	
6	*	HEATING indicator, flashes in defrost circle and Anti-Cold Air function,	
7	*	FAN ONLY OPERATION indicator	
8	Timer on Timer off	TIMER mode	
9		HEALTHY indicator	
10	&	ECO indicator	
11	ren	SUPER indicator	
12	41 11	HIGH FAN SPEED indicator	
13	411	MIDDLE FAN SPEED indicator	
14	•	LOW FAN SPEED indicator	
15	ŢI	"FLAP" SWING indicator	
16	E	SLEEP indicator	
17	\Diamond	DEFLECTORS SWING indicator	
18	\$	ANTI-MILDEW indicator	

INDOOR UNIT CONTROL PANEL

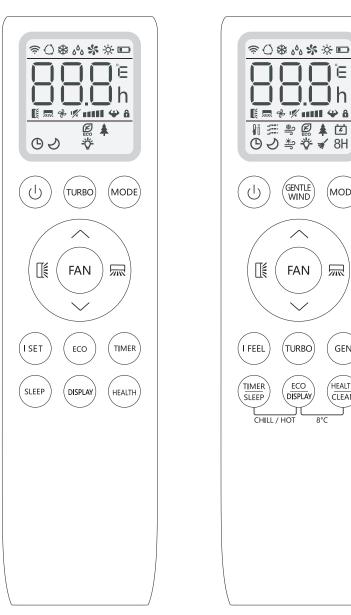


No.	Button	Function	
1	SWING	To activate or deactivate of the movement of the "Flaps" and deflectors .	
2	FAN	To select the fan speed of auto/low/mid/high	
3	TEMP-	Decrease the temperature or time by 1 unit	
4	TEMP+	Increase the temperature or time by 1 unit	
5	MODE	To select the mode of operation	
6	ON/OFF	FF 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 "TEMP UP" 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.	

 \triangle

The shape and position of the 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.



For inverter models

MODE

灬

GEN

HEALTH

CLEAN

8°C

For ON/OFF models

Remote controller buttons

No.	Buttons	Function
1	(1)	To turn on/off the air conditioner
2	GENTLE WIND	To activate the function of Gentle wind.
3	MODE	To select the operation mode: AUTO, COOL, DRY, FAN, HEAT.
4		To increase the setting temperature, lengthen the time in TIMER setting.
5	✓ (TEMP DN)	To decrease the setting temperature, reduce the time in TIMER setting.
6	眾	To adjust the air flow direction vertically(optional).
7		To adjust the air flow direction horizontally.
8	FAN	To adjust the fan speed: auto, mute, low, mid-low, mid, mid-hign, high, Turbo. Press FAN button and hold for 5 seconds, temperature display switch between Fahrenheit & celsius
9	I FEEL	To activate the function of I FEEL
10	I SET	To activate the function of I SET
11	TURBO	To switch on/off the TURBO mode
12	GEN	To switch on/off the GENERATOR mode
13	TIMER/SLEEP	To switch on/off the TIMER function and SLEEP mode
14	ECO/DISPLAY	To switch on/off the ECO mode and LED display light
15	HEALTH/CLEAN	To switch on/off the HEALTH function and Auto Clean function
16	TIMER/SLEEP + ECO/DISPLAY	To switch on/off the CHILL WIND and HOT WIND fucntion.
17	ECO/DISPLAY + HEALTH/CLEAN	To switch on/off the 8° C heating function.
18	a (^ + \scale)	To activate the function of Child Lock, press \(\sigma\) and \(\subseteq \) buttons together for more than 3 seconds.

⚠ The display and some functions of the remote control may vary according to the model.

 $\underline{\wedge}$ The shape and position of buttons and indicators may vary according to the model, but their function is the same.

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

There might some functions not fit for your air conditioner, you will hear a beep when you press these buttons, but air conditioner do not response, we express our apologies.

Remote controller DISPLAY, meaning of symbols on the liquid crystal display

No.	Symbols	Meaning
1	٥	AUTO MODE indicator
2	*	COOLING MODE indicator
3	٥٥٥	DRY MODE indicator
4	*	FAN MODE indicator
5	*	HEATING MODE indicator
6		BATTERY indicator
7	888,	TEMPERATURE/ CLOCK indicator
8	€ or 📶	FLAP SWING (Air flow) indicator
9	1/2	MUTE indicator
10		FAN SPEED indicator
11	(FLASH)	AUTO FAN indicator
12	\Phi	TURBO indicator
13	8	CHILE ROCK indicator
14	Ĵ	I FEEL indicator
15	 	GENTLE WIND indicator
16	<u>*5</u>	CHILL WIND indicator
17	E	ECO indicator
18	*	HEALTHY indicator
19	F	GENERATOR MODE indicator
20	©	TIMER indicator
21	2	SLEEP MODE indicator
22	*?	HOT WIND indicator
23	.	DISPLAY LIGHT indicator
24	3	CLEAN function indicator
25	8H	8° C heating function indicator

Replacement of Batteries

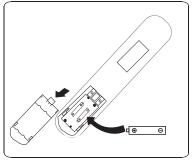
Remove the battery cover plate from the rear of the remote controller, by sliding it in the direction of the arrow.

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.

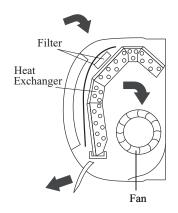
Do not dispose batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



Recommendations for locating and using the remote controller holder (if present). The remote controller be kept in a wall-mounted holder.

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.

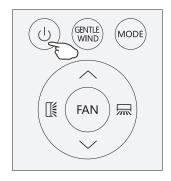


Turn ON / Turn OFF the air conditioner

Press the button



to turn on or turn off the air conditioner.



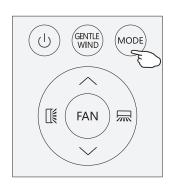
COOLING MODE



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 ♣ appears on the display.

With the button \checkmark or \land set a temperature lower than that of the room.



HEATING MODE



The heating function allows the air conditioner to heat the room

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

With the button ✓ or ∧ set a temperature higher than that of the room.



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.



DRY MODE



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

To set the DRY mode , Press MODE until $_0^0$ appears in the display. An automatic function of pre-setting is activated.

FAN MODE(Not FAN button)



Fan mode, air ventilation only.

To set the FAN mode, press MODE until spears on the display.



AUTO MODE



Automatic mode.

To set the AUTO mode, press MODE until appears on the display.

In AUTO mode the run mode will be set automatically according to the room temperature.

Change the fan speed

Press FAN button to set the running fan speed, it can be set to AUTO/ MUTE/ LOW/ MID-LOW/ MID/ MID-HI/ HIGH/TURBO speed.

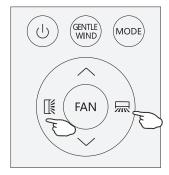
Flashing



AIR FLOW CONTROL

- 1. Normal 4 way air flow (vertical and horizontal):
- (2) Press to active the vertical deflectors to swing from left to right. Press again to stop the swing movement at the current angle.





GENTLE WIND (Optinal)



In this mode the appliance will close its vertical louvers, the air flow through the holes of louvers, the room is cool but no winds.

Press the GENTLE WIND button shortly, the appears on the display, and the appliance will run in GENTLE WIND mode. Press again to cancel it..

NOTE:

The gentle wind function is available in COOLING mode only.



I FEEL function

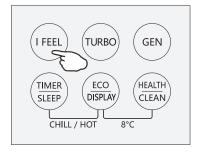


Press IFEEL button to active the function, the \iint will appear on the remote display.

Do it again to deactivate this function.

This function enables the remote control to measure the temperature at its current location, and send this signal to the air conditioner to optimize the temperature around you and ensure the comfort.

It will automatically deactivate 2 hours later.



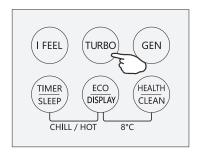
Turbo function



To activate turbo function, press the TURBO button, and \(\cup \) will appear on the display.

Press again to cancel this function.

In COOL/HEAT mode, when you select TURBO feature, the appliance will operate the fast cooling/fast heating with the highest fan speed.



GENERATOR MODE (Optional)

4

The air conditioner works in generator mode, it is helpful for the unstable net power area.

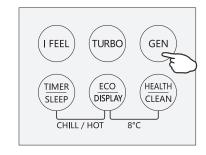
Through GEN mode, you can choose the current level of the unit. There are three levels (L1,L2,L3) in this mode, and the current increases in turn.

To activate GEN function, pressing the button GEN and the unit current level will cycle as below OFF \rightarrow L3 \rightarrow L2 \rightarrow L1"

Running current (% of rated current):

L1: 30%, L2: 50%, L3:70%

To cancel this function, press the GEN until code OF appers on the display.



SLEEP MODE



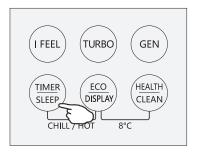
Pre-setting automatic operating program.

Press SLEEP button and hold for 2s to activate the sleep mode, and * appears on the display.

Press and hold for 2s again to cancel this mode.

In sleep mode, the air conditioner will automatically adjust the temperature and fan speed to make the room more comfortable during the night.

After 10 hours running in sleep mode, the air conditioner will change to the previous setting mode.



ECO MODE



In this mode the appliance automatically sets the operation to save energy.

Press the ECO button, the appears on the display, and the appliance will run in ECO mode. Press again to cancel it.

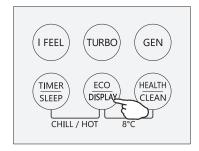
NOTE:

The ECO function is available in both COOLING and HEATING modes.



LED display light ON/OFF

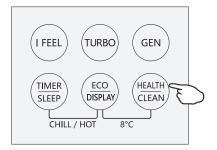
Press DISPLAY button and hold for 2s to turn on/off the indoor LED display light.



HEALTH function (Optional)

Press HEALTH button to active / exit the health functions such as ion generator/ plasma etc

Note: Health function is not available when the air conditioner is off

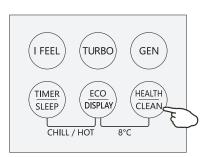


SELF-CLEAN function (Optional)

- This function help carry away the accumulated dirt, bacteria, etc from the evaporator.
- 2. Turn off the air conditioner, press "CLEAN" button to enter this function and it will show "CL" on the display of indoor unit.
- This function will run about 30 minutes, and it will exit automatically. You will hear 2 beeps when it's finished or cancelled.
- It's normal if there are some noise during this function process, as plastic materials expand with heat and contract with cold.
- 5.We suggest operate this function as the following ambient condition to avoid certain safety protection features.

Indoor unit	Temp<30°C
Outdoor unit	5°C <temp<30°c< td=""></temp<30°c<>

6. We suggest operate this function once every 3 months.



TIMER MODE----SET TIMER OFF



To set the air conditioner switching-off automatically.

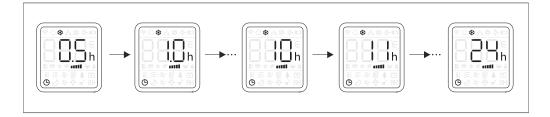
With the AC on, press the Timer button and then use the ∕ and ✓ buttons to set the length of time before the AC will turn off. Press the timer button again to start the countdown.

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







TIMER MODE----SET TIMER ON



To set the air conditioner switching-on automatically.

With the AC off, press the Timer button and use the ∕ and ✓ buttons to set the desired amount of time before the AC turns on. Press the timer button again to start the countdown.

When the timer setting was done, you can set the operation mode, fan speed, desired temperature, air flow when air conditioner star to run.

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

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

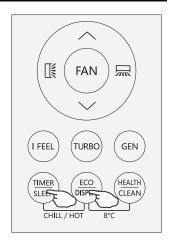




CHILL wind/ HOT wind function (Optional)



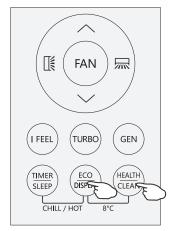
- In cooling mode, press both TIMER/SLEEP and ECO/DISPLAY buttons and hold for 2s to active the chill wind function.
- In heating mode, press both TIMER/SLEEP and ECO/DISPLAY buttons and hold for 2s to active the hot wind function.
- Press both TIMER/SLEEP and ECO/DISPLAY buttons and hold for 2s to exit the chill wind or hot wind function.



8℃ heating function (Optional)

8H

- 1.Press both ECO/DISPLAY and HEALTH/CLEAN buttons and hold for 2s to active the 8°C heating.
- 2. If the air conditioner is standby, this function enable the air conditioner automatically start heating when the indoor temperature is equal or lower than 8°C, it will return standby if the temperature is equal or higher than 18°C.
- 3. When the AC was turn off, press both ECO/DISPLAY and HEALTH/CLEAN buttons and hold for 2s to exit the 8°C heating.



I SET function(Optional)

In each mode of COOLING/HEATING/FAN/DRY, adjust the temperature(COOLING/HEATING), fan speed (COOLING/HEATING/FAN) and swing as your favourite, then keep pressing "I SET" button over 3 seconds until "AU" appears on the display and the background of display change to lighting, the remote controller will run and remember these settings. You can reset it by repeat the above operation.

In each mode of COOLING/HEATING/FAN/DRY, press "I SET" button to active this function, the AC will run as your favourite setting and you will see AU flashing on the remote controller. Press it again or other buttons to cancel this function.



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

For T1 Climate condition models:

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

For Tropical (T3) Climate condition models:

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

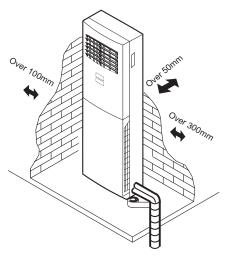
The capacity and efficiency are according to the test conducted at full-load operation*.

*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 (other wise 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.

Should be less

Indoor unit

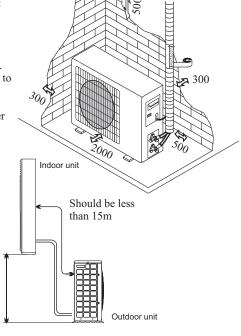
than 15m

Installation Diagram

• If the outdoor unit is subject to vibration, place rubber gaskets onto the feet of the unit...

Outdoor unit

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



less than 5m Height should Height should oe less than 5m Elbow to prevent water from entering room

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 piciure (by removing the screws)
- 2. Take out the accessories from the indoor unit.
- 3. Take off the cover as indicated in the piciure (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.

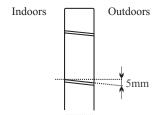


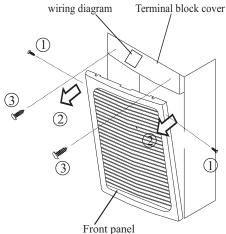
\ The cable connecting the outdoor and indoor units must be suitable for outdoor use.



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.

⚠ Friendly reminder:

In order to better protect the connecting pipe and the connecting line, the pipe hole sealing component needs to be installed on the pipe hole. The specific installation position is determined according to the actual pipe running direction (left side plate, right side plate, rear plate); after the connecting pipe is installed Fix it with 1 screw, and the specific position can be moved according to the actual situation;

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.

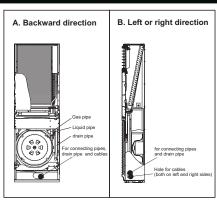
When extending the rolled pipe, straighten the pipe by unwinding it gently as shown in the picture.

⚠ Friendly reminder:

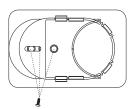
In order to facilitate the installation, the thicker connecting pipe of this model (when the indoor side is connected to the rear) needs to have ≥375mm thread L. Otherwise, the connecting pipe may bear against the filter net, and there is a problem that the filter is loose or the gap of the lower panel is too large;

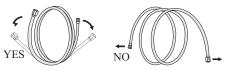
Connections to the indoor unit

- 1. Remove the indoor unit pipe cap (check that there is no debris inside).
- Insert the fare 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

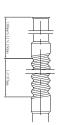


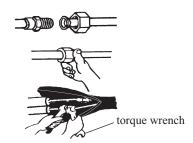
Shape the connection pipe





Extending the rolled pipe



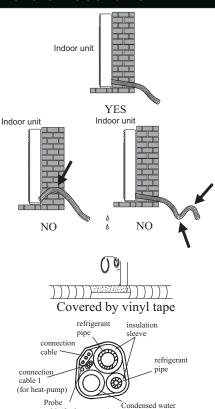


INSTALLATION MANUAL---Installation of the Indoor unit

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.



cable(for heat-pump)

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.
- 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.

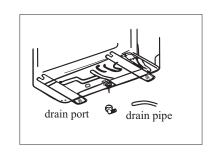
INSTALLATION MANUAL---Installation of the outdoor unit

- 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 aviod 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

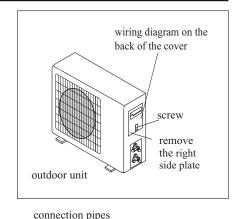
- 1. Fasten the drain port in the 25mm hole placed in the part of the unit as shown in the picture.
- Connect the drain port and the drain pipe.Pay attention that water is drained in a suitable place.



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 atten-

- 1. Tighten the flare nuts using two wrenches. Pay attention not to damage the pipes.
- 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.
- The surest system consists in tightening the connection by using a fix wrench and a torque wrench: Please check the torque wrench table.

flare nuts liquid tap gas tap indoor unit gas valve tap service port nut protection caps

service port

vacuum pump

BLEEDING

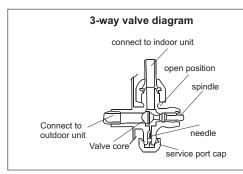
Air and humidity left inside the refrigerant circuit can cause compressor malfunction. After having connected the indoor and outdoor units, bleed the air and humidity from the refrigerant circuit by using a vacuum pump.

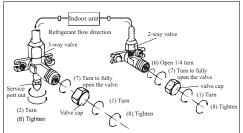
INSTALLATION MANUAL---Installation of the outdoor unit

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

- Wind insulating covering around the joints of the indoor unit and fix it with insulating tape.
 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
- 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.

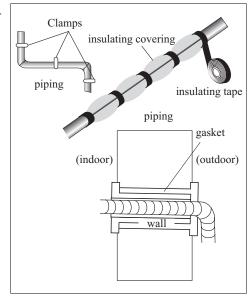
Indoor unit test

- 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 " (\$ 6)	3/8 " (φ 9.52)	3/8 " (\phi 9.52)	1/2 " (\phi 12.70)	1/2 " (φ 12.70)	
Gas pipe diameter	1/2 " (φ 12)	5/8 " (φ 15.88)	5/8 " (φ 15.88)	3/4 " (\phi 19.05)	3/4 " (\phi 19.05)	
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 " (Φ 6)	15 - 20	wrist strength	Service port nut	7 - 9
3/8 " (φ 9.52)	31 - 35	arm strength	Protection caps	25 - 30
1/2 " (ф12)	45 - 50	arm strength		
5/8 " (φ 15.88)	60 - 65	arm strength		
3/4 " (ф 19.05)	80 - 85	arm strength		

^{*}According to model's specification

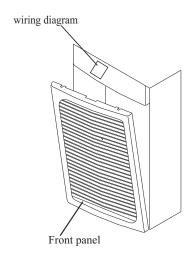
INSTALLATION MANUAL---Information for the installer

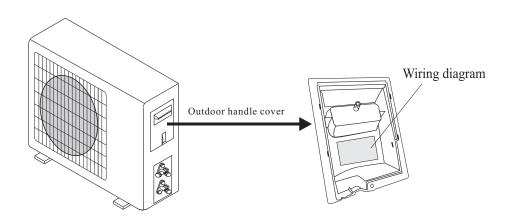
WIRING DIAGRAM

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	
MODEL capacity (Bea/II)		Sectional area					
	N	2.5mm² AWG12	2.5mm² AWG12	2.5mm ² (4.0mm ³)	_	0.75mm ² (1.5mm ³)	
	L	2.5mm² AWG12	2.5mm ² AWG12	2.5mm ² (4.0mm ³)	_	0.75mm² (1.5mm³)	
	Е 🕀	2.5mm² AWG12	2.5mm² AWG12	2.5mm ² (4.0mm ³)		0.75mm ² (1.5mm ³)	
Power supply cable	R(A)	_		_	2.5mm ² AWG12	2.5mm ² AWG12	
	S(B)	_	_	_	2.5mm ² AWG12	2.5mm ² AWG12	
	T(C)	_	_	_	2.5mm ² AWG12	2.5mm ² AWG12	
	N	_	_	_	2.5mm ² AWG12	2.5mm ² AWG12	
	-	_	_	_	2.5mm ² AWG12	2.5mm² AWG12	
	N	1.5mm ²	2.5mm ²	0.75mm ² (1.5mm)	0.75mm² (1.5mm³)	_	
	L	_	2.5mm ²	0.75mm² (1.5mm³)	0.75mm² (1.5mm³)	_	
	-	1.5mm ²	2.5mm ²	0.75mm ² (1.5mm ³)	0.75mm² (1.5mm³)	_	
Connection supply cable	1	1.5mm ²	0.75mm² (2.5mm³)	0.75mm ²	0.75mm ²	0.75mm ²	
	2	0.75mm ²	0.75mm ² (2.5mm ³)	0.75mm ²	0.75mm ²	0.75mm ²	
	3	0.75mm ²	0.75mm ² (2.5mm ³)	0.75mm ²	0.75mm ²	0.75mm ²	
	4	_	_	0.75mm ²	0.75mm ²	0.75mm ²	

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

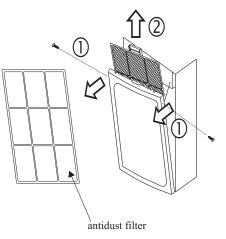
ANTIDUST FILTERS

- Open the front panel as indicated in the piciure (by removing the screws)
- 2. Keeping the front panel raised with one hand, take out the air filter with the other hand
- 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		
	Power failure/plug pulled out		
	Damaged indoor/outdoor unit fan motor		
	Faulty compressor thermomagnetic circuit breaker		
The appliance does not	Faulty protective device or fuses.		
operate	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.		
	Inappropriate temperature setting		
	Air inlet or outlet of indoor or outdoor unit has been blocked.		
Insufficient airflow, either	Air filter is blocked.		
hot or cold	Fan speed set at minimum.		
	Other sources of heat in the room.		
	No refrigerant.		
	Remote control is not near enough to indoor unit.		
The appliance does not respond to commands	Battery in Remote controller may have been exhausted		
respond to commands	Obstacles between remote control and signal receiver in indoor unit.		
T1 1: 1	Active LED function		
The display is off	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

	ronnamp	Description of the front of		
ΕI	flashes once	The fault of indoor temperature sensor		
23	flashes twice	The fault of indoor pipe temperature sensor		
£5	flashes 5 times	The protect of outdoor discharge temperature or wrong electrical connections or high current or high pressure		