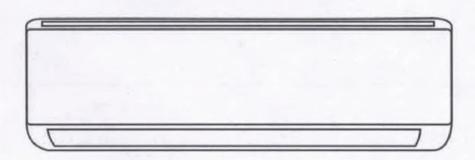
TCL

# SPLIT TYPE 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.

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Thank you once again.

In line with the company's policy of continual product improvement, the aesthetic and dimensional characteristics, technical data and accessories of this appliance may be changed without notice.

## SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

- During the installation of the indoor and outdoor units the 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 con ditioner.
- The ratings of the fuse installed in the built in control unit are 4A / 250V .
- ⚠ 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 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.
- Check that 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 a distance of less than 50 cm from inflammable substances (alcohol, etc.) or from pressurised containers (e.g. 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 danger of fire
- The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection centre for disposal.
- Only use the air conditioner as instructed in this booklet. These instructions are not intended 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.
- The appliance must be installed in accordance with applicable national regulations.
- A Before accessing the terminals, all the power circuits must be disconnected from the power supply.
- The appliance shall be installed in accordance with national wiring regulations.
- This appliance can be used by children aaged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

## SAFETY RULES AND RECOMMENDATIONS FOR THE USER

- Do not try to install the conditioner alone; Never remain directly exposed to the flow of always contact specialized technical personnel. cold air for a long time. The direct and prolonged exposition to cold air could be dangerous for your ↑ Cleaning and maintenance must be carried out health .Particular care should be taken in the by specialized technical personnel. In any case rooms where there are children, old or sick disconnect the appliance from the mains people. electricity supply before carrying out any cleaning or maintenance. If the appliance gives off smoke or there is a smell of burning, immediately cut off the pow A Ensure that the mains voltage corresponds to er supply and contact the Service Centre. that stamped on the rating plate. Keep the switch The prolonged use of the device in such or power plug clean. Insert the power plug correctly and firmly into the socket, thereby conditions could cause fire or electrocution.
- 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.

avoiding the risk of electric shock or fire due

to insufficient contact.

- The packaging materials are recyclable and should be disposed of in the separate waste bins. Take the air conditioner at the end of its useful life to a special waste collection center 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 earthing/grounding is done 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.

- 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 intended 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. Specialized 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.

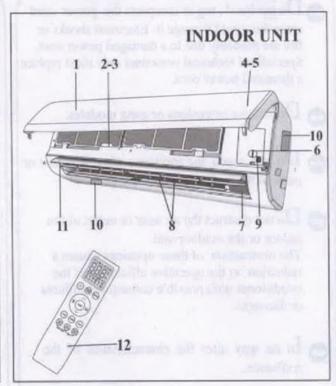
- Do not climb onto or place any heavy or hot objects on top of the appliance.
- Do not leave windows or doors open for long when the air conditioner is operating.
- Do not direct the airflow onto plants or animals.
- A long direct exposition to the flow of cold air of the conditioner could have negative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

The electrical insulation could be damaged and thus causing electrocution.

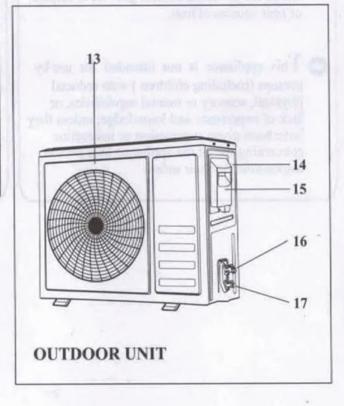
- Do not climb onto or place any objects on the outdoor unit
- Never insert a stick or similar object into the appliance. It could cause injury.
- Children should be supervised to ensure that they do not play with the appliance. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

## NAMES OF PARTS

IND	OOR UNIT
No.	Description
1	Front panel
2	Air filter
3	Optional filter (if installed)
4	LED Display
5	Signal receiver
6	Terminal block cover
7	Ionizer generator(if installed)
8	Deflectors
9	Emergency button
10	Indoor unit rating label (Stick position optional)
11	Airflow direction louver
12	Remote controller

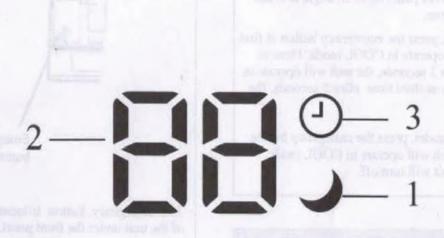


OUT	TDOOR UNIT
No.	Description
13	Air outlet grille
14	Outdoor unit rating label
15	Terminal block cover
16	Gas valve
17	Liquid valve



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	SLEEP	)	SLEEP mode
2	Temperature display (if present) /Error code	88	<ol> <li>Lights up during Timer operation when the air conditioner is operational</li> <li>Displays the malfunction code when fault occurs.</li> </ol>
3	TIMER	(2)	Lights up during Timer operation.

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

## **EMERGENCY FUNCTION & AUTO-RESTART FUNCTION**

#### EMERGENCY FUNCTION

If the remote controller fails to work or maintenance necessary, proceed as following:

Open and lift the front panel up to an angle to reach the emergency button.

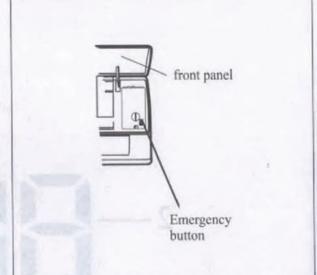
For heating model, press the emergency button at first time, the unit will operate in COOL mode. Press at second time within 3 seconds, the unit will operate in HEAT mode. Press at third time after 5 seconds, the unit will turn off.

For cooling only model, press the emergency button at first time, the unit will operate in COOL mode. Press again, the unit will turn off.

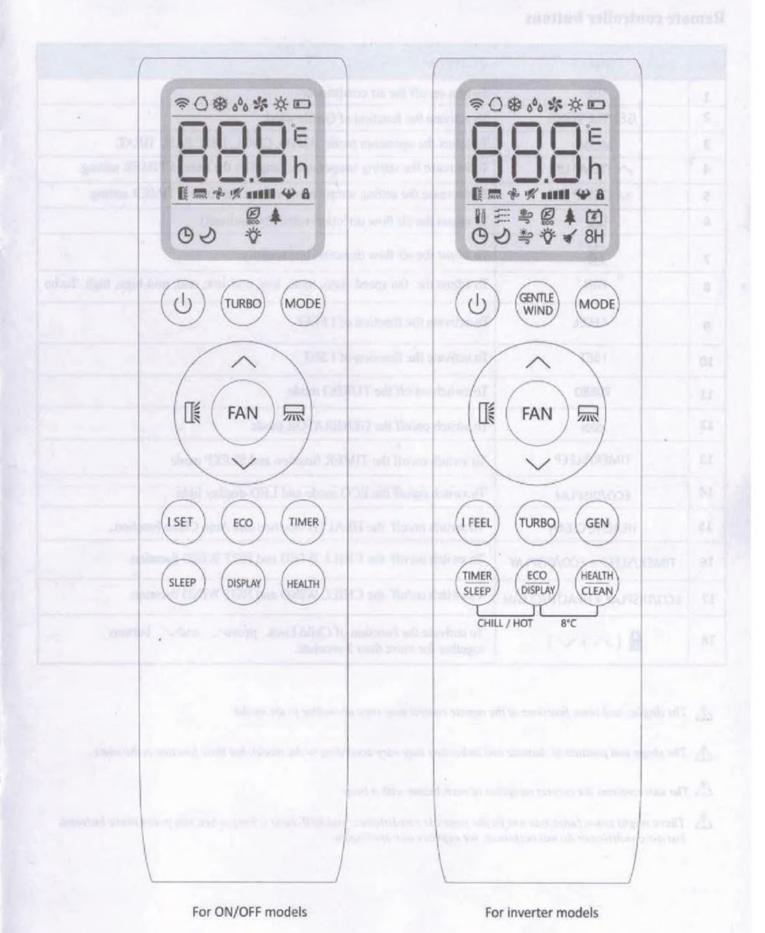
#### AUTO-RESTART FUNCTION

The appliance is preset with an auto-restart function. In case of a sudden power failure, the module will memorizes the setting conditions before the power failure. When the power restores, the unit will restart automatically with the previous settings preserved by the memory function.

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



The emergency button is located on E-box cover of the unit under the front panel.



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## REMOTE CONTROLLER

#### 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		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
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 CHILL WIND and HOT WIND fucntion.
18	<b>⋒</b> (∧+∨)	To activate the function of Child Lock, press and buttons together for more than 3 seconds.

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

⚠ 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

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

No.	Symbols	Meaning				
1	0	AUTO MODE indicator				
2	*	COOLING MODE indicator				
3	٥٥٥	DRY MODE indicator				
4	*	FAN MODE indicator				
5	*	HEATING MODE indicator				
6	Chalcon th sub-	BATTERY indicator				
7	88.8,	TEMPERATURE/ CLOCK indicator				
8	€ or <del>□</del>	FLAP SWING (Air flow) indicator				
9	1//	MUTE indicator				
10	the the the tree tree	FAN SPEED indicator				
11	(FLASH)	AUTO FAN indicator				
12	4	TURBO indicator				
13	a	CHILE ROCK indicator				
14	₽ů	I FEEL indicator				
15	<b>=</b>	GENTLE WIND indicator				
16	<u>*</u>	CHILL WIND indicator				
17	NCO NCO	ECO indicator				
18	*	HEALTHY indicator				
19	Ē	GENERATOR MODE indicator				
20	<b>©</b>	TIMER indicator				
21	2)	SLEEP MODE indicator				
22	*	HOT WIND indicator				
23	*	DISPLAY LIGHT indicator				
24	*	CLEAN function indicator				
25	8H	8° C heating function indicator				

## REMOTE CONTROLLER

Replacement of Batteries

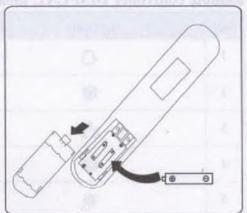
Remove the battery cover plate from the rear of the remote controller, by sliding it in the direction of the arrow.

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.

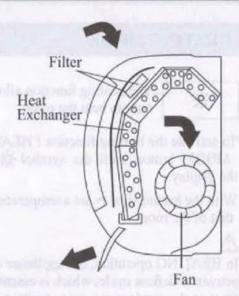
Do not dispose batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



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.

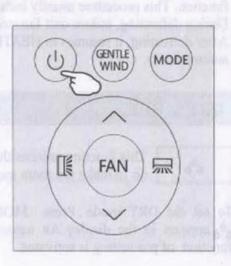


## Turn ON / Turn OFF the air conditioner

Press the button



to turn on or turn off the air conditioner.



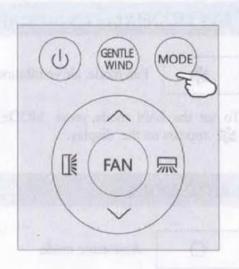
#### **COOLING MODE**



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



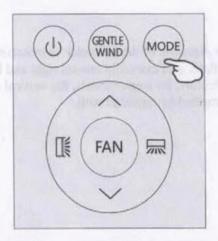
The heating function allows the air conditioner to heat the room.

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

With the button  $\checkmark$  or  $^{\diamond}$  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.

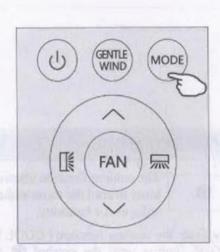
To set the DRY mode, Press MODE until 60 appears in the display. An automatic function of pre-setting is activated.

## FAN MODE(Not FAN button)



Fan mode, air ventilation only.

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



#### **AUTO MODE**



Automatic mode.

To set the AUTO mode, press MODE until

appears on the display.

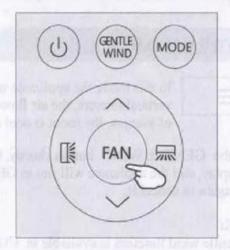
In AUTO mode the run mode will be set automatically according to the room temperature.

## 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

mill > # > 1 > 11 > 111 > 1111 > 4



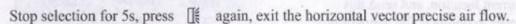
GENTLE

FAN

MODE

#### AIR FLOW CONTROL

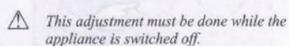
- 1. Normal 4 way air flow (vertical and horizontal):
- Press to activate the horizontal flaps to swing from up to down. Press again to stop the swing movement at the current angle.
- (2) Press to active the vertical deflectors to swing from left to right. Press again to stop the swing movement at the current angle.
- 2. Vector precise air flow
- (1)Press and hold for 1s, it will go into the horizontal vector air flow, you can select a small swing angle you want:



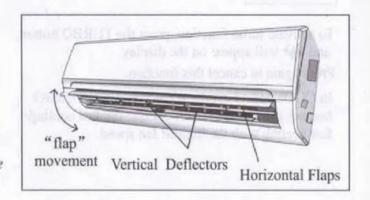
(2) Press and hold for 1s, it will go into the vertical vector air flow:

Stop selection for 5s, press again, exit the vertical vector precise air flow.

If the vertical deflectors are positioned manually whichplaced under the flaps, they are allowed to move the air flow direct to rightward or leftward.



- Never position "Flaps" manually, the delicate mech-anism might get seriously damaged!
- Never poke fingers, sticks or other objects in the air inlet or outlet vents. Such accidental contact with liveparts might cause unforeseeable damage or injury.



## **GENTLE WIND (Optinal)**

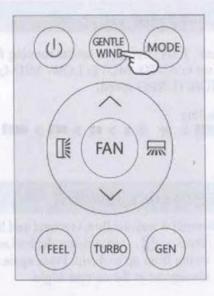
===

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

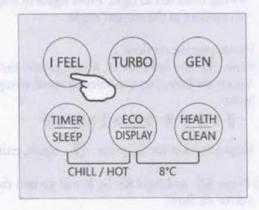
## IFEEL

Press IFEEL button to active the function, the 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.



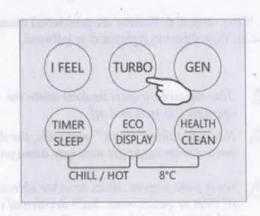
#### **Turbo function**



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)**

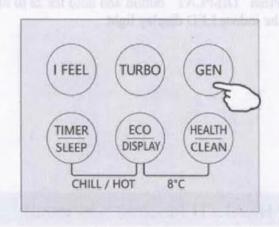
The air conditioner works in generator mode, it is helpful for the unstable net power area.

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→L3→L2→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



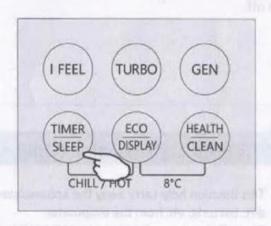
Pre-setting automatic operating program.

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 previously set mode.



#### **ECO MODE**

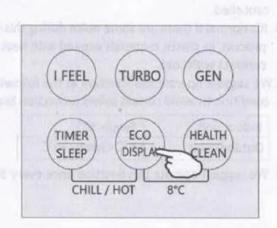


In this mode the appliance automatically sets the operation to save energy.

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

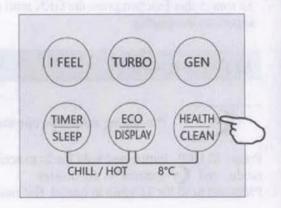
Press DISPLAY button and hold for 2s to turn on/off the indoor LED display light.



## **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.

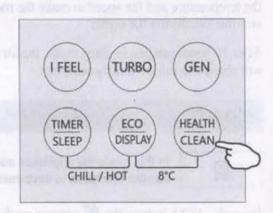


## **SELF-CLEAN function (Optional)**

- This function help carry away the accumulated dirt, bacteria, etc from the evaporator.
- 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.
- We suggest operate this function as the following ambient condition to avoid certain safety protection features.

Indoor unit	Temp<30℃		
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.

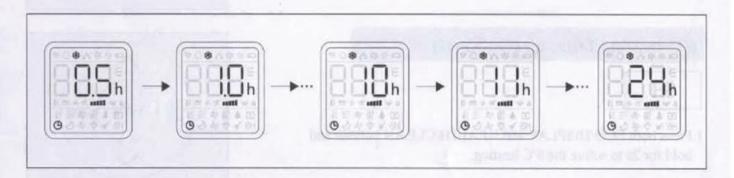
With the AC on, press the Timer button and then use the and buttons to set the length of time before the AC will turn off. Press the timer button again to start the countdown.

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.

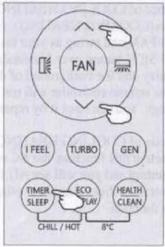
With the AC off, press the Timer button and use the and buttons to set the desired amount of time before the AC turns on. Press the timer button again to start the countdown.

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

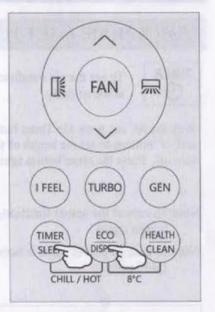




## CHILL wind/ HOT wind function (Optional)



- 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°C heating function (Optional)

H8

- 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.



### **Operating Temperature**

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

#### Fix air conditioner:

Cooling operating	Heating operating	Drying operating	
17°C~32°C	0°C~27°C	17°C~32°C	
15°C~43°C For T1 Climate	TO 24°C	15°C~43°C For T1 Climate 15°C~52°C For T3 Climate	
15℃~52℃ For T3 Climate			
	17°C~32°C 15°C~43°C For T1 Climate 15°C~52°C	17°C~32°C 0°C~27°C  15°C~43°C For T1 Climate  -7°C~24°C  15°C~52°C	

#### Inverter air conditioner:

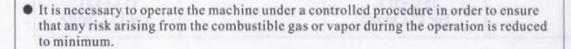
MODE Temperature	Cooling operating	Heating operating	Drying operating	
Room temperature	17℃~32℃	0℃~30℃	17℃~32℃	
	15°C~53°C		15°C~53°C	
Outdoor temperature	-15°C~53°C For models with low temperature cooling system	-20℃~30℃	-15℃~53℃ For models with low temperature cooling system	

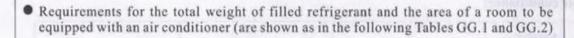
The unit does not operate immediately if it is turned on after being turned off or after changing the mode during operation. This is a normal self-protection action, you need waiting for about 3 minutes.

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.)

#### ■ Important Considerations

- The air conditioner you buy must be installed by professional personnel and the "Installation manual" is used only for the professional installation personnel! The installation specifications should be subject to our after-sale service regulations.
- When filling the combustible refrigerant, any of your rude operations may cause serious injury or injuries to human body or bodies and object or objects.
- A leak test must be done after the installation is completed.
- It is a must to do the safety inspection before maintaining or repairing an air conditioner using combustible refrigerant in order to ensure that the fire risk is reduced to minimum.







#### ■ The maximum charge and the required minimum floor area

 $m_1 = (4 \text{ m}^3) \times LFL$ ,  $m_2 = (26 \text{ m}^3)) \times LFL$ ,  $m_3 = (130 \text{ m}^2) \times LFL$ 

Where LFL is the lower flammable limit in kg/ $m^3$ , R290 LFL is 0.038 kg/ $m^3$ , R32 LFL is 0.306 kg/ $m^3$ . For the appliances with a charge amount  $m_1 < M = m_2$ :

The maximum charge in a room shall be in accordance with the following: $m_{max} = 2.5 \times (LFL)^{(5/4)} \times h_0 \times (A)^{1/2}$ 

The required minimum floor area Amin to install an appliance with refrigerant charge M (kg) shall be in accordance with following:  $A_{min} = (M/(2.5 \times (LFL)^{(5/4)} \times h_0))^2$ 

Where:

 $m_{max}$  is the allowable maximum charge in a room, in kg;

M is the refrigerant charge amount in appliance, in kg;

Amin is the required minimum room area, in m2;

A is the room area, in m2;

LFL is the lower flammable limit, in kg/m3;

 $h_0$  is the installation height of the appliance, in meters for calculating  $m_{max}$  or  $A_{min}$ , 1. 8 m for wall mounted;

Table GG.1 - Maximum charge (kg)

Category	LFL	h <sub>o</sub>			Floo	or area (m	2)			
	(kg/m³)	(m)	4	7	10	15	20	30	50	
R290 0.03		0.6	0.05	0.07	0.08	0.1	0.11	0.14	0.18	
		1	0.08	0.11	0.13	0.16	0.19	0.2	0.3	
	R290	0.038	1.8	0.15	0.2	0.24	0.29	0.34	0.41	0.53
			2.2	0.18	0.24	0.29	0.36	0.41	0.51	0.65
R32	opi samu		0.6	0.68	0.9	1.08	0.32	1.53	1.87	2.41
	0.306	1	1.14	1.51	1.8	2.2	2.54	3.12	4.02	
		1.8	2.05	2.71	3.24	3.97	4.58	5.61	7.254	
		2.2	2.5	3.31	3.96	4.85	5.6	6.86	8.85	

Table GG.2 - Minimum room area (m²)

Category	LFL (kg/m³)	h <sub>0</sub> (m)	Charge amount (M) (kg)  Minimum room area (m²)						and problems frameworks was problems	
-75/15/10		99	0.152kg	0.228kg	0.304kg	0.456kg	0.608kg	0.76kg	0.988kg	
	Harry St. Co.	0.6		82	146	328	584	912	1514	
R290	0.038	0.038	1		30	53	118	210	328	555
	To de Sal	1.8	graph Lie	9	16	36	65	101	171	
	is a life	2.2	Maria palo vel)	6	11	24	43	68	115	
			1.224kg	1.836kg	2.448kg	3.672kg	4.896kg	6.12kg	7.956kg	
		0.6	Tribl Specifie	29	51	116	206	321	543	
R32	0.306	1	Herbit Mayo	10	19	42	74	116	196	
		1.8	United to a	3	6	13	23	36	60	
		2.2		2	4	9	15	24	40	

#### ■ Installation Safety Principles

#### 1. Site Safety







**Open Flames Prohibited** 

Ventilation Necessary

2. Operation Safety



Open Flames Prohibited







Mind Static Electricity Must wear protective clothing and anti-static gloves Don't use mobile phone

- 3. Installation Safety
- Refrigerant Leak Detector
- Appropriate Installation Location

The

The left picture is the schematic diagram of a refrigerant leak detector.

Please note that:

- 1. The installation site should be in a well-ventilated condition.
- 2. The sites for installing and maintaining an air conditioner using Refrigerant R290 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 370°C which easily produces open fire; the sites for installing and maintaining an air conditioner using Refrigerant R32 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 548°C which easily produces open fire.
- When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.
- 4. It is necessary to choose the site convenient for installation or maintenance wherein the air inlets and outlets of the indoor and outdoor units should be not surrounded by obstacles or close to any heat source or combustible and/or explosive environment.
- 5. If the indoor unit suffers refrigerant leak during the installation, it is necessary to immediately turn off the valve of the outdoor unit and all the personnel should go out till the refrigerant leaks completely for 15 minutes. If the product is damaged, it is a must to carry such damaged product back to the maintenance station and it is prohibited to weld the refrigerant pipe or conduct other operations on the user's site.
- 6. It is necessary to choose the place where the inlet and outlet air of the indoor unit is even.
- 7. It is necessary to avoid the places where there are other electrical products, power switch plugs and sockets, kitchen cabinet, bed, sofa and other valuables right under the lines on two sides of the indoor unit.

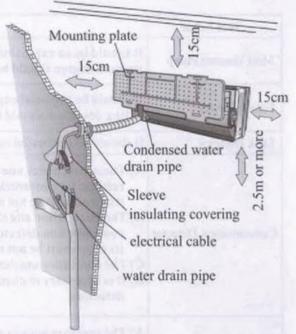
## Special Tools

Tool Name	Requirement(s) for Use
Mini Vacuum Pump	It should be an explosion-proof vacuum pump; can ensure certain precision and its vacuum degree should be lower than 10Pa.
Filling Device	It should be a special explosion-proof filling device; have certain precision and its filling deviation should be less than 5g.
Leak Detector	It should be calibrated regularly; and its annual leak rate should not exceed 10g.
Concentration Detector	A) The maintenance site should be equipped with a fixed-type combustible refrigerant concentration detector and connected to a safeguard alarm system; its error must be not more than 5%.  B) The installation site should be equipped with a portable combustible refrigerant concentration detector which can realize two-level audible and visual alarm; its error must be not more than 10%.  C) The concentration detectors should be calibrated regularly.  D) It is necessary to check and confirm the functions before using the concentration detectors.
Pressure Gauge	A) The pressure gauges should be calibrated regularly.     B) The pressure gauge used for Refrigerant 22 can be used for Refrigerants R290 and R161; the pressure gauge used for R410A can be used for Refrigerant 32.
Fire Extinguisher	It is necessary to carry fire extinguisher(s) when installing and maintaining an air conditioner. On the maintenance site, there should be two or more kinds of dry powder, carbon dioxide and foam fire extinguishers and that such fire extinguishers should be placed at stipulated positions, with eye-catching labels and in handy places.

## **INSTALLATION MANUAL---Selecting the Installation Place**

#### INDOOR UNIT

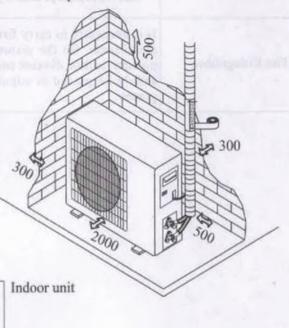
- Install the indoor unit on a strong wall that is not subject to vibrations.
- The in let and outlet ports should not be obstructed:the air should be able to blow all over the room.
- Do not install the unit near a source of heat, steam,or flammable gas.
- Do not install the unit where it will be exposed 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.



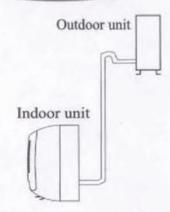
#### **OUTDOOR UNIT**

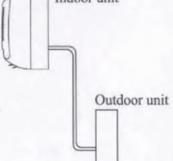
- Do not install the outdoor unit near sources of heat, steam or flammable gas.
- · Do not install the unit in too windy or dusty places.
- Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb the neighbours.
- Avoid installing the 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.
- 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

The installation site should be 250cm or more above the floor.

#### To install, proceed as follows:

#### Installation of the mounting plate

- 1. Always mount the rear panel horizontally and vertically
- Drill 32 mm deep holes in the wall to fix the plate;
- 3. Insert the plastic anchors into the hole;
- 4. Fix the rear panel on the wall with provided tapping screws
- Be sure that the rear panel has been fixed firmly enough to withstand the weight.

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

- Make the piping hole (Φ65) in the wall at a slight downward slant to the outdoor side.
- Insert the piping-hole sleeve into the hole to prevent the connection piping and wiring from being damaged when passing through the hole.

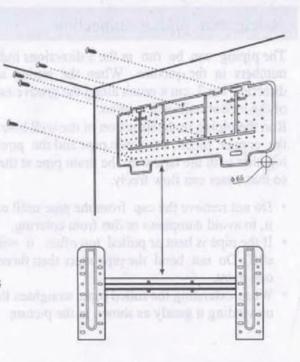
The hole must slope downwards towards the exterior

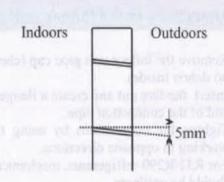
Note: Keep the drain pipe down towards the direction of the wall hole, otherwise leakage may occur.

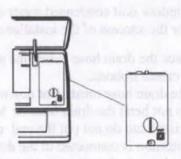
## Electrical connections---Indoor unit

- 1. Open the front panel.
- Take off the cover as indicated in the piciure (by removing a screw or breaking the hooks).
- For the electrical connections, see the circuit diagram on the right part of the unit under the front panel.
- 4. 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.
- The plug must be accessible also after the appliance has been installed so that it can be pulled out if necessary.
- An efficient earth connection must be ensured.
- A If the power cable is damaged, it must be replaced by an authorised Service Centre.

Note: Optional the wires can been connected to the main PCB of indoor unit by manufacturer according to the model without terminal block.







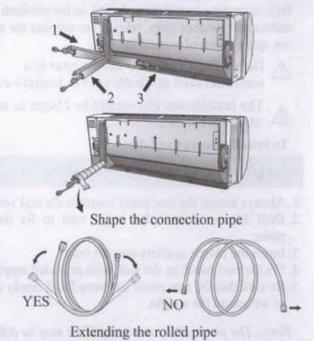
## **INSTALLATION MANUAL---Installation of the Indoor unit**

#### Refrigerant piping connection

The piping can be run in the 3 directions indicated by numbers in the picture. When the piping is run in direction 1 or 3, cut a notch along the groove on the side of the indoor unit with a cutter.

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.



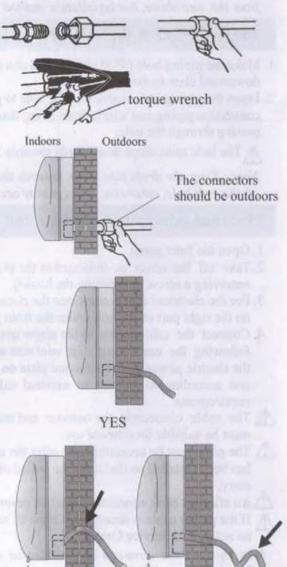
#### Connections to the indoor unit

- 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.
- Tighten the connections by using two wrenches working in opposite directions.
- For R32/R290 refrigerants, mechanical connectors should be outdoors.

## Indoor unit condensed water drainage

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

- 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.
- 4. If the piping is installed to the right, the pipes, power cable and drain hose must be lagged and secured onto the rear of the unit with a pipe connection.
- 1) Insert the pipe connection into the relative slot.
- 2) Press to join the pipe connection to the base.



NO

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

#### INSTALLATION OF THE INDOOR UNIT

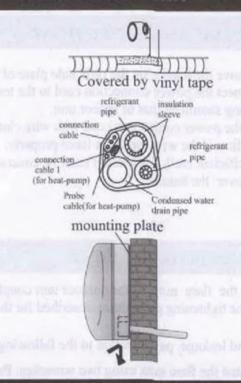
After having connected the pipe according to the instructions, install the connection cables. Now install the drain pipe. After connection, lag the pipe, cables and drain pipe with the insulating material.

1. Arrange the pipes ,cables and drain hose well.

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.

 Press and push the lower part of the indoor unit tightly against the mounting plate



## 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;

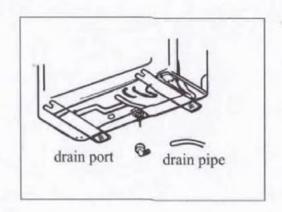
- Use a larger quantity of screw anchors than normally required for the weight they have to bear to aviod vibration during operation and remain fastened in the same position for years without the screws becoming loose
- The unit must be installed following the national regulations.

# 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

 Fasten the drain port in the 25mm hole placed in the part of the unit as shown in the picture.

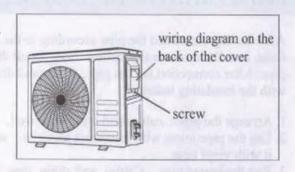
Connect the drain port and the drain pipe.Pay attention that water is drained in a suitable place.



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

#### **ELECTRICAL CONNECTIONS**

- 1. Remove the handle on the right side plate of outdoor unit.
- 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.
- Confirm if the wire has been fixed properly.
- 5. An efficient earth connection must be ensured.
- 6. Recover the handle.



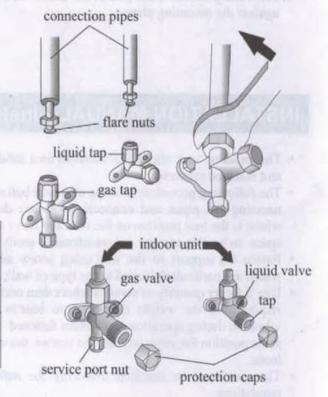
#### CONNECTING THE PIPES

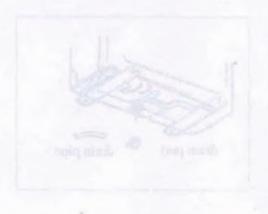
Screw the flare nuts to the outdoor unit coupling with the same tightening procedures described for the indoor unit.

To avoid leakage, pay attention to the following points:

- 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 as below:

PIPE Size	Newton meter [N x m]	Pound-force foot (1bf-ft)	Kilogram-force meter (kgf-m)
1/4 ° ( \$6.35)	15 - 20	11.1 - 14.8	1.5 - 2.0
3/8 " ( \$ 9.52)	31 - 35	22.9 - 25.8	3.2 - 3.6
1/2 " ( ф 12)	45 - 50	33.2 - 36.9	4.6 - 5.1
5/8 * ( \$15.88)	60 - 65	44.3 - 48.0	6,1 - 6.6





dent part and the steep repeated to the place.

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

#### Air Vacuumizing

- 1.Use a spanner to take down the protective caps from
  the service port, low pressure valve and high pressure
  valve of the outdoor unit.
- Connect the pressure hose of manifold gauge to the service port on the outdoor unit low pressure valve.
- 3. Connect the charge hose from the manifold gauge to the vacuum pump.
- Open the low pressure valve of the manifold gauge and close the high pressure valve.
- 5. Turn on the vacuum pump to vacuumize the system.
- 6. The vacuuming time should not be less than 15 minutes, or make sure the compound gauge indicates -0.1 MPa (-76 cmHg)
- Close the low pressure valve of the manifold gauge and turn off the vacuum.
- Hold the pressure for 5 minutes, make sure that the rebound of compound gauge pointer does not exceed 0.005 Mpa.
- 9. Turn the low pressure valve counterclockwise for 1/4 turn with hexagonal wrench to let a little refrigerant fill in the system, and close the low pressure valve after 5 seconds and quickly remove the pressure hose.
- Check all indoor and outdoor joints for leakage with soapy water or leak detector.
- 11. Fully open the low pressure valve and high pressure valve of the outdoor unit with hexagonal wrench.
- 12.Replace the protective caps of the service port, low pressure valve and high pressure valve of the outdoor unit.
  13.Replace the valve cover.

## Refrigerant Pressure Inspection

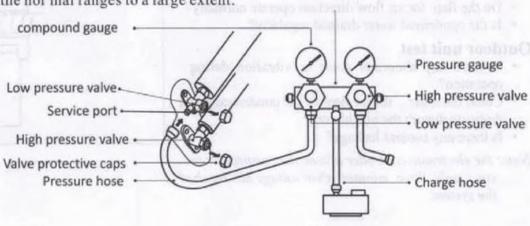
Air-returning Low-pressure Range of Refrigerant R290: 0.4-0.6Mpa; Air-exhausting High-pressure Range: 1.5-2.0Mpa;

Air-returning Low-pressure Range of Refrigerant R32: 0.8-1.2Mpa; Air-exhausting High-pressure Range:

3.2-3.7Mpa;

It means that the refrigerating system or refrigerant of an air conditioner is abnormal if the air-exhausting and air-returning pressure ranges of the detected compressor exceed the nor mal ranges to a large extent. service port vacuum pump

Manifold gauge

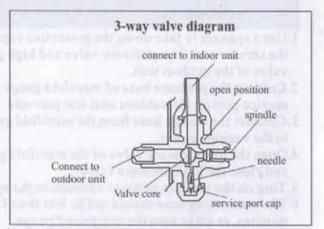


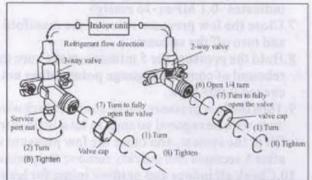
## **INSTALLATION MANUAL---Installation of the outdoor unit**

#### 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.

- 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 after10 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.
- Fix the piping to the wall ( after having coated it with insulating tape) using clamps or insert them into plastic slots.
- Seal the hole in the wall through which the piping is passed so that no air or water can fill.

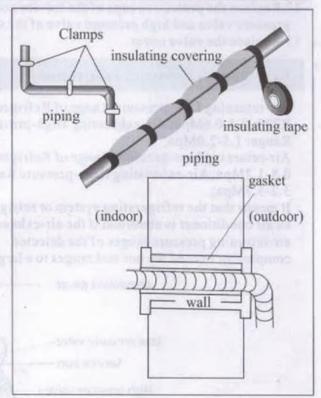
#### Indoor unit test

- · 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**

## Pipe length and Additional refrigerant

Inverter Models capacity (Btu/h)	9k	-15k	18k-36K		
Lenght of pipe with standard charge	3m (North American:5m·)	3m (North American:5m )	5m (North American:7.5m)	5m (North American:7.5m	
Maximum distance between indoor and outdoor unit	15m	15m	25m	25m	
Additional refrigerant charge	20g/m	15g/m	30g/m	25g/m	
Max. diff. in level between indoor and outdoor unit	10m	10m	15m	15m	
Type of refrigerant	R22/R410A	R32	R22/R410A	R32	

ON-OFF Models capacity (Btu/h)	9k	-15k	18k-36K		
Lenght of pipe with standard charge	3m (North American:5m)	3m (North American:5m)	5m (North American:7.5m )	5m (North American:7.5m	
Maximum distance between indoor and outdoor unit	15m	15m	15m	15m	
Additional refrigerant charge	20g/m	15g/m	30g/m	25g/m	
Max. diff. in level between indoor and outdoor unit	5m	5m	5m	5m	
Type of refrigerant	R22/R410A	R32	R22/R410A	R32	

## **Dedicated Distribution Device and Wire for Air Conditioner**

Dedicated	Distribution Dev	ice and Wire for Air Condit	ioner	
Maximum Operating Current of Air Conditioner (A)	Minimum Wire Cross-sectional Area(mm²)	Nominal Specification of Socket or Switch (A)	Reference Fuse Specification (A)	
≤8	0.75	10	20	
>8 and ≤10	1.0	10	20	
>10 and ≤15	1.5	16	32	
>15 and ≤24	2.5	25	32	
>24 and ≤28	4.0	32	64	
>28 and ≤32	6.0	40	64	

#### Note:

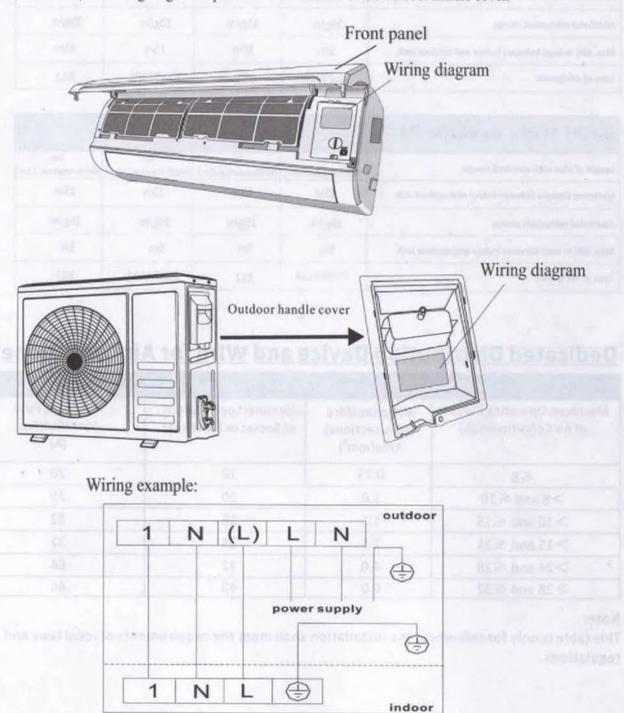
This table is only for reference, the installation shall meet the requirements of local laws and regulations.

## 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

INVERTER TYPE		-	9k	12k	15k/18k	24k		
MODEL capacity (Btu/	sectional area							
Power supply cable	N	of the	1.5mm²	1.5mm²	1.5mm²	2.5mm <sup>2</sup>		
r ower supply cable	L	teo edici	1.5mm <sup>2</sup>	1.5mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm²	Keeph int air	
	<b>(b)</b>	gretane	1.5mm²	1.5mm²	1.5mm <sup>2</sup>	2.5mm²	15 (2.3) 15 (2.3)	
ratio militare	N	thus	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	Korpa Me sale	
	(L)		0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	Sept	
Connection supply cable	1	(bollers	0.75mm <sup>2</sup>	0.75mm²	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	pelizier	
	0	Brasign	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	Wen die	

ON/OFF TYPE		5k	7k	9k	12k	15k/18k	22k/24k	28~36k
MODEL capacity (Btu/l	sectional area							
	N	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4.0mm <sup>2</sup>
Power supply cable	L	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>	2.5mm²	4.0mm <sup>2</sup>
	<b>(b)</b>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm²	1.5mm <sup>2</sup>	2.5mm²	4.0mm²
AND THE PARTY OF THE PARTY OF	N	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm
	(L)	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1.0mm²	1.0mm <sup>2</sup>	1.5mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
Connection supply cable	1	1.0mm <sup>2</sup>	1.0mm <sup>2</sup>	1,0mm <sup>2</sup>	1.0mm²	1.5mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm²
	2	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm²	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
	3	0.75mm <sup>2</sup>						
	<b>(+)</b>	0.75mm <sup>2</sup>						

220V Air conditioner (7k~30k) indoor unit fuse: 50T, 3.15A 110V Air conditioner (7k~12k) indoor unit fuse: 50T, 3.15A 125V Air conditioner (7k~12k) indoor unit fuse: 61T, 15A 250V Air conditioner (18k~24k) indoor unit fuse: 65TS, 25A

## **MAINTENANCE**

Periodic maintenance is essential for keeping your air conditioner efficient.

Before carrying out any maintenance, disconnect the power supply by taking the plug out from the socket.

#### INDOOR UNIT

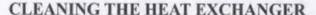
#### ANTIDUST FILTERS

- Open the front panel following the direction of the arrow
- 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).

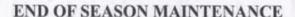
Leave to dry in a cool and dry place.

- 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 after every 6 months.



- Open the front panel of the unit and life it till its greatest stroke and then unhooking it from the hinges to make the cleaning easier.
- Clean the indoor unit using a cloth with the water (not higher than 40°C) and neutral soap. Never use aggressive solvents or detergents.
- If the outdoor unit is clogged, remove the leaves and the waste and remove the dust with air jet or a bit of water.



- 1. Disconnect the automatic switch or the plug.
- 2. Clean and replace the filters
- 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 heard from the indoor unit.

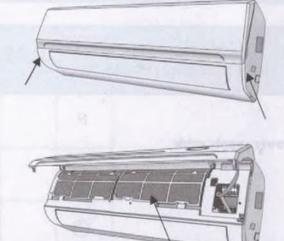
· The LCD doesn' tact.

How: • Take off the cover at back.

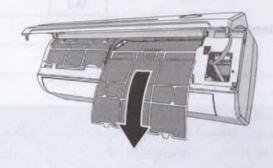
Place the new batteries respecting the symbols + and -.

N.B: Use only new batteries. Remove the batteries from the remote controller 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

MALFU	UNCTION	POSSIBLE CAUSES						
		Power failure/plug pulled out.						
		Damaged indoor/outdoor unit fan motor.						
The appliance does not operate	Faulty compressor thermomagnetic circuit breaker.							
	Faulty protective device or fuses.							
	Loose connections or plug pulled out.							
	operate	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 o	dor	Dirty air filter.						
Noise of	running water	Back flow of liquid in	the refrigera	ant circulation.				
A fine mis	st comes from tlet			om becomes very cold, for example in the IFYING/DRY" modes.				
A strange heard	noise can be	This noise is made by to variations in temper	on or contraction of the front panel due oes not indicate a problem.					
		Unsuitable temperature setting.						
		Obstructed air conditioner intakes and outlets.						
Insufficie	ent airflow, either	Dirty air filter.						
hot or col		Fan speed set at minimum.						
		Other sources of heat in the room.						
		No refrigerant.						
The annli	ionaa daaa nat	Remote control is not close enough to indoor unit.						
	ance does not o commands	The batteries of remote control need to be replaced.						
respond to commands		Obstacles between remote control and signal receiver in indoor unit.						
The displ	au is aff	Active LIGHT function.						
i ne dispi	ay is on	Power failure.						
Switch off the air condi- tioner immediately and		Strange noises during operation.						
		Faulty electronic control board.						
		Faulty fuses or switches.						
	e power supply	Spraying water or objects inside the appliance.						
in the eve	ent of:	Overheated cables or plugs.						
		CASIAN PRODUCTION OF TAXABLE PROPERTY OF TAXAB						
		Very strong smells coming from the appliance.						
ERRO	R SIGNALS O	N THE DISPLAY						
		on the indoor unit show	-					
	Description of th	ne trouble	Display	Company of the Compan				
EI	Indoor temperate	ure sensor fault	83	Outdoor discharge temperature sensor faul				
53	Indoor pipe temperature sensor fault		E9	Outdoor IPM module fault				
E3	Outdoor pipe temp	perature sensor fault	ER	Outdoor current detect fault				
C	Refrigerant system	n leakage or fault	88	Outdoor PCB EEPROM fault				
E4	Transfer and man							
£9 £6	Malfunction of in		EF	Outdoor fan motor fault				



This instruction has an alternative format and you could obtain from our website: <a href="http://hao.tcl.com">http://hao.tcl.com</a>.