

Smart WIFI Controlled Wall Mounted Inverter Split Air Conditioner with Heat Pump

iQool9 iQool12 iQool18 iQool24 9,000 BTU 12,000 BTU 18,000 BTU 24,000 BTU



USER AND INSTALLATION MANUAL

Thank you for choosing a TCL Air Conditioner Please read this user manual before using this innovative Air Conditioner and keep it safe for future reference.

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SAFETY INSTRUCTIONS

Important!

- Carefully read the instructions before operating the unit
- This appliance comprises of an indoor and an outdoor unit. The indoor slim evaporator is designed exclusively for indoor installations while the external condenser can be installed outside while still away from flood water or snow line.
- Rating: This unit must be only connected to a 220-240 V / 50 Hz earthed power source.
- Installation must be in accordance with the regulations of the country where the unit is used.
- These air conditioners are supplied with pre flared refrigeration pipes and electrical cables, which enables the installer to reduce the installation time.
- European Union regulations requires for an F-Gas trained engineer to handle any operation where non-qualified intervention could cause fluorinated gas to escape. A commissioning certificate must be issued with any installation.
- If you are in any doubt about the suitability of your electrical supply have it checked and, if necessary, modified by a qualified electrician.
- This air conditioner has been tested and is safe to use. However, as with any electrical appliance use it with care.
- Disconnect the power before dismantling, assembling or cleaning.
- Avoid touching any moving parts within the appliance.
- Never insert fingers, pencils or any other objects through the guard
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities. It is also not intended for use by those with a lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Do not leave children unsupervised with this appliance.
- Do not clean the unit by spraying it or immersing it in water.
- Never connect the unit to an electrical outlet using an extension cord. Both the indoor unit and outdoor must be hardwired by a qualified electrician.
- Never operate this appliance if the cord is damaged. Ensure the power cord is not stretched or exposed to sharp objects or edges.
- A damaged supply cord should be replaced by the manufacturer or a qualified electrician in order to avoid a hazard.
- Any service other than regular cleaning or filter replacement should be performed by an authorized service representative or a qualified air conditioning engineer. Failure to comply could result in a voided warranty.
- Do not use the appliance for any purpose other than its intended use.
- The outdoor part of the air conditioner unit must always be stored and transported upright, otherwise irreparable damage may be caused to the compressor; if in doubt we suggest waiting at least 24 hours before starting the unit.
- Avoid restarting the air conditioning unit unless 3 minutes have passed since being turned off. This prevents damage to the compressor.
- Never use the mains as a switch to start and turn off the air conditioning unit. Use the provided ON/OFF button located on the remote control.
- Always place the unit on a dry and stable surface. Install the outdoor unit on a wall with wall-mounted brackets or fix to a floor slab with special floor mounting slab bolts or brackets away from flood or snow lines.
- The indoor unit should not be installed in laundry or wet rooms.

Energy Saving and Unit Safety Protection Tips

- Do not cover or restrict the airflow from the outlet or inlet grills.
- For maximum performance the minimum distance from a wall or objects should be 50cm.
- Keep the filters clean. Under normal conditions, filters should only need cleaning once every four weeks (approximately). Since the filters remove airborne particles, more frequent cleaning maybe necessary, depending on the air quality.
- For the initial startup set the fan speed to maximum and the thermostat to 4-5 degrees lower than the current temperature. After, set the fan switch to low and set the thermostat to your desired setting.
- To protect the unit we recommend not using the cooling mode when the ambient indoor temperature is higher than 35°C.
- To protect the unit we recommend not using the heating mode when the indoor ambient temperature is lower than 7°C. Performance will be reduced at lower temperatures.
- Note the manufacturer operating temperature ranges at the end of this user manual.

OPERATION

COOLING MODE

The compressor (6) in the external unit compresses the refrigerant into a high-temperature, high-pressure gas. When this gas flows along the cooling fins of the condenser (7), heat is exuded and the gas condenses into a liquid, which is then led to the evaporator (1) in the indoor unit. The liquid expands into a gas at a low temperature and low pressure. This gas absorbs the warmth of the air in the room, and a fan (3) draws the air through the filter and over the evaporator (1), blowing the cooled air back into the room. The heat is moved to the compressor along with the gas. A fan (8) draws air over the condenser and blows the warm air away.



1. Evaporator	2. Filter	3. Evaporator Fan
4. Gas Line	5. Liquid line	6. Compressor
7. Condenser	8. Condenser Fan	

HEAT PUMP MODE

The system operates in reverse: the condenser works as an evaporator, the evaporator as a condenser: warm air is blown into the room. It is ideal as a maintenance heating when outside temperature is not too low and when the indoor temperature is more than 7°C.

Dehumidifying

As with cooling, the moisture in the air condenses on the cold evaporator at room temperature acting as a powerful dehumidifier.

REMOTE CONTROL

The remote control has a range of up to 8m. Point the remote control at the receiver in the interior unit. A beep confirms that the remote control signal has been received.

REMOTE OPERATION

Turn the appliance on using the **ON/OFF** button. This activates the most recently used setting. The ON/OFF button also turns the air conditioner off.

*Horizontal swing not available on most models and the horizontal direction must be adjusted manually.



No.	Button	Function
1	Up	Press to increase temperature
2	Down	Press to decrease temperature
3	ON/OFF	Press to turn on/off the unit
4	Fan	Press to select the fan speed LOW / MED / HIGH
5	Timer	Press to set the timer
6	Sleep	Press to activate the "SLEEP" function
7	Eco	In cooling mode, press to increase the set temperature by 2°C.
		In heating mode, press to decrease the set temperature by 2°C
8	Mode	Press to select the desired operating mode
9	Turbo	Press to activate turbo mode. This will make the unit work its
		hardest to quickly cool or heat the room for a period of 15 minutes.
		The fan will be set to max, the temperature will be set to either
		16°C in cooling mode or 31°C in heating mode.
10	Swing	Select the vertical direction of airflow (Horizontal direction not
		adjustable on these models)
11	Mute	Press to turn off the beep when functions are selected
12	Display	Press to turn on/off the LED display
13	I Feel	Press to activate the follow me function
14	Health	Press to activate the antibacterial ioniser function

°C/°F

Temperature units can be changed on the remote by altering the switch under the battery cover. Remove the batteries, move the switch to the desired units then replace the batteries.

TEMPERATURE

The desired temperature is set with the up and/or down button, within the limits of the thermostat: $16^{\circ}C - 32^{\circ}C$.

Use the **FAN SPEED** button to set the fan speed at low, medium and high; or automatic (the symbol on the display will flash). The fan speed in the automatic setting is determined by the difference between the set temperature and the room temperature.

INDOOR UNIT



No.	Description
1	Front panel
2	Air filter
3	Optional filter
4	LED Display
5	Signal receiver
6	Terminal block cover
7	Ionizer generator (not applicable on all models)
8	Deflectors
9	Emergency button
10	Indoor unit rating label
11	Airflow direction louver

OUTDOOR UNIT



DISPLAY PANEL

No.



No.	Display	Function
1	POWER	Illuminated when power is on
2	SLEEP	Illuminated in sleep mode
3	Temp. / Error code	Shows the temperature / error code
4	TIMER	Illuminated when timer is activated
5	RUN	Illuminated when unit is turned on

FUNCTIONS

COOL 🕸

- 1. Press the **MODE** button until the **COOL** indicator appears.
- 2. Set the desired temperature.
- 3. Use the FAN button to set the fan speed.

НЕАТ 🔆

- 1. Press the MODE button until the HEAT indicator appears
- 2. Set the desired temperature.
- 3. Use the **FAN** button to set the fan speed.

FAN MODE 🐇

- 1. Press **MODE** button until the **FAN** indicator appears.
- 2. The temperature settings are disabled in fan mode.
- 3. Use the **FAN** button to set the fan speed, cycling through LOW / MED / HIGH / AUTO.

DEHUMIDIFY

- 1. Press the **MODE** button until the dehumidify indicator appears.
- 2. The fan speed will always be low in this mode and the **FAN** button is disabled. In addition the temperature cannot be adjusted in dehumidifying mode

AUTO MODE

- 1. Press the **MODE** button until the **AUTO** indicator appears.
- 2. The difference between the set temperature and room temperature determines how the air conditioner operates: cool, heat, fan or dry. It is not possible to change the temperature in this mode the unit will operate to achieve best performance. The operation logic is as below.

Ambient Temperature	Temperature Operation Mode		
<20°C	Heating	23°C	
20°C - 26°C	Dry	18°C	
>26°C	Cool	23°C	

3. Use the **FAN** button to set the fan speed.

TIMER OFF FUNCTION (WHILE THE AIR CONDITIONER IS ON)

- 1. Press the **MODE** button until the symbol appears for the operation you want.
- 2. Set the desired temperature.
- 3. Use the **FAN** button to set the fan speed.
- 4. Press the **TIMER** button to set the running time required. Use the up and down buttons to set the running time in 30 minute intervals (max 24 hours). Once the running time has elapsed, the appliance will switch itself off. To cancel the timer function before the set time has elapsed, press the **TIMER** button again.

TIMER ON FUNCTION (WHILE THE AIR CONDITIONER IS IN STANDBY) $\textcircled{\bullet}$

- 1. The appliance is switched off in standby mode
- 2. Press the **TIMER** button to set the number of hours until switch on is required. Use the up and down button set the number of hours in 30 min intervals (max 24 hours). Set the desired operation, temperature, fan speed. Once the set time has elapsed, the appliance will switch itself on. To turn off the timer function before the set time has elapsed, press the **TIMER** button again.

- 1. Press the **SLEEP** button
- 2. Set the desired temperature.
- 3. Press the **SLEEP** button; The **SLEEP** indicator will appear on the display. Cancel the sleep mode by pressing the button again.
- 4. The fan will operate at low speed..
- 5. The temperature is automatically altered by 1°C every hour for 2 hours. In cooling mode the temperature will rise, in heating it will fall.
- 6. After 10 hours in Sleep mode the unit will power off automatically.

тикво 👾

- 1. Press the **TURBO** button until the Turbo symbol appears.
- 2. Set the desired temperature.
- 3. Use the **FAN** button to set the fan speed
- 4. Press the **TURBO** button. The fan and compressor will run at maximum speed for 15 minutes, before returning to their previously set levels.

SWING 🕅 📠

- 1. Press the **SWING** buttons to control the fan direction.
- 2. The swing controls the horizontal air movement (up/down)
- 3. The swing button is not activated on this model, and the horizontal direction of the airflow can be adjusted manually.

ECO ᠮ

- 1. Press the ECO button to turn on the energy saving mode
- 2. In cooling mode, the desired temperature will increase by 2°C.
- 3. In heating mode, the desired temperature will decrease by 2°C.

IFEEL

- 1. Press the **IFEEL** button to activate the follow me mode.
- 2. In this mode the temperature of the unit will be set based on the temperature where the remote is situated.
- 3. The remote will act as a mobile thermostat which controls the unit.



- 1. Press the Health button to activate the antibacterial ioniser function.
- 2. The ionizer helps to eliminate pollutants in the air.

IMPORTANT

AUTO RESTART.

The air conditioner will automatically restart when electricity is restored after a power cut. If in doubt, check the settings.

RANGE OF INTERNAL THERMOSTAT

The internal thermostat can be set at a desired temperature between 16 and 32°C. Note that whether the desired value is achieved depends on the room size, temperature and insulation of the room.

RANGE OF HEAT PUMP FUNCTION

The heat function can be used when the external ambient temperature is above -15°C. The performance of the heat pump will degrade with lowering external temperatures. Please note the performance will reduce when the outdoor temperature drops below 5°C.

CAPACITY

The required cooling or heating capacity depends greatly on the location and/or use of the room where the air conditioner is installed. Strong sunlight and the presence of people, lights or equipment create an additional heat load. Normal living spaces require about 100 W per square metre of floor surface. In strong sunlight or if other sources of heat are present, this may be as much as 350 W/sqm.

Tip: On warm days, let the air conditioner cool the room as much as possible during the night and set the temperature constant from night to daytime.

EMERGENCY START

In the event of a problem, the air conditioner can be operated using the emergency button under the panel in the interior unit. Open the front panel and press the button, the air conditioner will: -heat if the room temperature is 20 °C or less, cool if the room temperature is 25 °C or more and for values in between: dehumidify in a model without a heat pump and in a model with a heat pump in fan mode.

BEFORE YOU START

- Ensure your router provides a standard 2.4ghz connection.
- If your router is dual band ensure that both networks have different network names (SSID).
 The provider of your router / ISP will be able to provide advice specific to your router.
- Once the app has been installed on your phone, turn off the data connection, and ensure your phone is connected to your router via wifi.

DOWNLOAD THE APP TO YOUR PHONE

Please note that your air conditioner requires a good signal during the setup process. Your air conditioner is designed to be connected to a 2.4ghz network, and the connection is set up using the TCL "SMART LIFE" app. We would advise on using the QR codes below to ensure the correct app is downloaded.





The unit can also be controlled using the "Smart Life" app by TUYA which is also available in the app stores. We would advise on using the version above which is optimised for use with your air conditioner as we cannot guarantee the correct functionality of all features with the TUYA app. If you would prefer to use the TUYA app, please use the QR codes below



Android



IOS

ACTIVATING THE APP

The first time the app is used, it will need activating. To do this, either press the scan button, and scan the QR code below, or press "Enter Activation Code" and enter the activation code: TCL







REGISTER THE APP

Upon the first use, an account will need to be registered. Click on the "Register" button to enter the registration screen. The account can be created by using either the default option of an email address, or alternatively by SMS message using the "Register with mobile number" option.



EMAIL REGISTRATION

Enter your email address, and Press next. In the password box create a new password for your account, before pressing confirm. This should be at least 6 characters and include letters and numbers.

SMS REGISTRATION

Press on the option at the bottom of the screen to choose the option for registering with a mobile number. You will receive an activation code via SMS. Enter the activation code into the verification code box, before entering your new password in the box below.

Please note the password should be at least 6 characters and include letters and numbers. Then press the confirm button to log in.

÷	Register	÷	Register	÷	Register	
Region	United Kingdom +44 >	Region	United Kingdom +44 >	Verifi	cation code is sent to y	our phone:
E-mail		Mobile numbe	r	Verificatio	on Code	(56 s)
	Next		Next	Please in	put password	0
					Confirm	
or Reg	ister with Mobile number >					

FORGOTTEN PASSWORD

Should the password for your account be forgotten, it is possible to use the "Forgot Password" option which will allow you to enter the email address or telephone number used to register the account, and a verification code will be sent to you via the method chosen.

Kerk Login	<back password<="" request="" th=""><th><back password<="" request="" th=""></back></th></back>	<back password<="" request="" th=""></back>
Region United States +1 >	USA +01>	Verification code is sent to your phone: +01 XXXXXXXXX
Mobile number/E-mail	Mobile number/E-mail	Verification Code resend(58)
Password o	Next	Enter new password O
Login		Confirm
Sign in with SMS Forgot password		

CONNECTION METHODS AVAILABLE FOR SETUP

The air conditioner has two different setup modes, CF (Quick Connection) and AP (Access Point). The CF mode is a quick and simple way to set the unit up. The AP connection uses a direct local wifi connection between your phone and the air conditioner to upload the network details.

Before starting the setup, please ensure that your air conditioner is in the correct standby mode for the connection type you are attempting, the display on the air conditioner will confirm the current connection mode during setup.

CHANGING BETWEEN CONNECTION TYPES

To change the unit between the two connection types, quickly press the display button on the remote 6 times, and wait approx. 10 seconds until the new connection mode is displayed on the panel of the air conditioner.

ADDING A DEVICE

- 1. Press the "Add device" button, which will bring up a screen to choose the device type.
- 2. Select "Split Air Conditioner" from the Device Type List.
- 3. The app will default to quick connection mode, and this can be changed by pressing the button labelled AP Mode in the top right of the screen.
- 4. After ensuring that the air conditioner is also in the correct connection mode, follow the relevant connection guide on the following pages.

Devices	Cancel	Select Device Type		< Back	Add Device	AP Mode
		Window Type Air Conditioner	>			
		Split Air Conditioner	>			
		Dehumidifier	>		EF	
Empty device list	list Portable Air Conditioner >					
	\bigcirc	Security Camera	>			
					PLAY on the remote contro seconds until the LCD scr	
Add Device						
Device Add Device Profile					Next Step	

CONNECTING USING CF MODE (QUICK CONNECTION)

- Ensure that the display on the air conditioner is displaying CF before pressing "Next Step" (otherwise to change the connection mode: Quickly press the display button on the remote 6 times and wait 10 seconds until CF is displayed)
- 2. Select your Wifi router from the drop down list and enter the password (Please note the password is case sensitive) before pressing next.

< Back	Add Device	AP Mode	<	Back	Enter Wi-Fi password	
	EF		T	his app is	supported only 2.5GHz Wi	Fi channels
				ি Wi-f	Fi:	>
	SPLAY on the remote contro 5 seconds until the LCD scre					
	Next Step		1		Next	

The app will automatically upload the connection information to the air conditioner, once the connection is completed, a message will be displayed to confirm. On this page there is the option to rename the air conditioner to something more relevant.

<back connect="" device<="" th="" to="" trying=""><th> </th><th>< Back</th><th>Trying to Connect</th><th>Device</th></back>		< Back	Trying to Connect	Device
26% Device is connecting Make sure your phone and device are as close to your router as possible.			ully add 1 devices 3	Rename
 Searching for device Registering device to the cloud Initializing your device 			Share with famil Done	у

If the connection fails, please retry the connection, failing this try connecting using the AP mode connection.

CONNECTING USING AP MODE (ALTERNATIVE METHOD)

- 1. Ensure that the screen on the air conditioner is displaying AP (otherwise to change the connection mode: Quickly press the display button on the remote 6 times and wait 10 seconds until AP is displayed)
- 2. Press on the AP Mode button in the top right of the screen to change the app to AP mode connection.
- 3. Select your Wifi router from the drop down list and enter the password (Please note the password is case sensitive) before pressing next.



- 4. Connect your phone to the wifi network by leaving the app, and connecting to the Wifi network created by the air conditioner "Smartlife-XXX"
- 5. Reopen the app and click on the "Connect now" button,

Back Trying to Connect Device	WLAN	Kack Trying to Connect Device
Open phone "setting-WLAN" and connect to the Wi-Fi network Not connecting? Refer to help	Turn on or turn off WLAN Available networks SmartLife-xxx	26% Device is connecting Make sure your phone and device
Connect now	ⓒ 读 Scan WLAN Direct	 are as close to your router as possible. ○ Searching for device ○ Registering device to the cloud ○ Initializing your device

The app will automatically upload the connection information to the air conditioner, once the connection is completed, a message will be displayed to confirm. On this page there is the option to rename the air conditioner to something more relevant.

Kernel And Antiparties Connect Device	
Successfully add 1 devices State Smart device name Rename	Connection error,refer to help and retry
Share with family	Retry
Done	View help

If the connection fails, please retry the connection, failing this try connecting using the CF mode connection.

CONTROLLING YOUR DEVICE THROUGH THE APP

Now that your air conditioner is linked up to your network, you can control it from your phone. Select your device in the device list to gain access to the controls for the device.



Use the + and – buttons to increase and decrease the desired temperature. The tabs on the bottom of the screen should be used to change other settings.

Mode: Allows the operating mode to be changed between Feel, Heat, Dry, Cool and Fan.

Speed: Allows the fan speed to be changed between Auto, Low, Medium and High.

Function: Allows the Sleep, Turbo and Eco functions to be activated (See main manual for description of the operation) and for vertical and horizontal swing on the louvres to be turned on / off (Not supported on all units)



USING THE TIMER FUNCTION

The timer can be used to either set a time for the air conditioner to turn on (and specify the settings it will run with), or a time for the unit to turn off. Multiple timers can be used together to build a schedule with on and off times.

- 1. Press the Timer button at the bottom right of the screen.
- 2. To set a new timer, press the "Add Timer" button at the bottom of the screen. If there is a timer already programmed that you would like to amend, press and hold the timer which requires amendment.

OFF TIMER:

- 1. Select Timer Off
- 2. Set the time the air conditioner should turn off 3. Select which days the timer should operate
- 4. Press Save in the top right corner.

ON TIMER:

- 1. Select Timer On
- 2. Set the time the air conditioner should turn on
- 3. Select which days the unit should run on the auto timer.
- 4. Set the Mode, fan speed, desired temperature and function that the air conditioner should run with.
- 5. Press Save in the top right corner.

Timer cancel	Cancel	Add [·]	Timer	Save	Cancel	Add ⁻	Timer	Save	—Timer submit
Hour setting		12 13 14 15 16 17 18	07 08 09 10 11 12 13			12 13 14 15 16 17 18	25 26 27 28 29 30 31		—Minute setting
Mode setting	Timer Off Timer On - Mode			Cool >	Se Mon Tue		use Smart Mode		—Weekly setting
Fan Speed setting Temperature setting	 Fan Set Tempe Function 	erature		Auto > 23°C > >	Timer Off Timer On			0	Timer ON/OFF setting



MORE SETTINGS

When on the main screen the three dots in the top right hand corner give you access to the settings options for the app. This a number of extra options for modifying the name of the air conditioner, and removing a device from the app.

← window type air conditoner	← More
ڻ ا	
	Modify Device Name window type air condi >
	Device Sharing >
23°	Device info >
23° Set Temperature	Feedback >
	Check for Firmware Update >
	Remove Device
- +	Restore Manufacture Defaults
Mode Speed Function Timer	

FILTERS

Ensure the power is turned off to the unit before attempting to service the filters.



Opening the front panel: at the A recesses, pull the front part up with both hands. The front panel will stay horizontal (at around 90°).

Closing the front panel: press the front part down at the sides at B and in the middle at. Make sure it is properly clicks into place.



- 1. Hold the front panel open (or put it in horizontal position) and remove the filter(s).
- 2. Use a vacuum cleaner to remove dirt. If the dust filter is very dirty, it may be washed in lukewarm water with a very small amount of neutral detergent. Rinse well and allow to dry completely (not in direct sunlight or near a source of heat).
- 3. Keep the front panel open and reinstall the filter(s). Press the panel shut; a click indicates it is closed properly.
- 4. Restore the power from the consumer unit and turn the air conditioner on.

Indoor Unit: While the unit is disconnected from power dust regularly with a dry cloth or slightly damp paper towel. Never use chemicals or solvents. Never spray a liquid in or over the appliance.

Exterior unit: While the unit is disconnected from power. Remove dirt and keep the air intake and exhaust openings free of debris, etc. Cleaning with chemicals may cause damage.

END OF SEASON

If the air conditioner is not going to be used for an extended period:

- Set in fan mode on a slightly warm day so that the inside of the appliance dries out.
- Switch off the power from fuse box and remove the batteries from the remote control.
- Clean filters as well

START OF SEASON

If the air conditioner is to be used again after an extended period:

- Check that the air intake and exhaust openings of the interior and exterior units are not blocked. Remove all dirt and debris.
- Check that filter is installed and is clean.
- Check that the condensation outlet drains properly and there is no dirt or organic blockage (otherwise leakage may occur)
- Install 2 AAA batteries in the remote control.
- Turn the appliance on, set the time and desired setting.

REPLACING THE BATTERIES

- Remove the remote cover.
- Replace the AAA batteries, ensuring the correct polarity.
- Install the cover.
- Press the on/off button; if no symbols appear on the display, the batteries require replacing or have been incorrectly installed.



INSTALLATION GUIDE

SAFETY

- Only qualified personnel should install this appliance. This installation manual is intended for use by individuals possessing adequate backgrounds and qualifications in electrical, electronic, refrigerant and mechanical field. Any attempt to install or repair the appliance may result in personal injury and property damage.
- The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.
- The units are designed for permanent installation.
- The equipment is designed for domestic or office use and we are not making any endorsements for use in industrial or maritime environment.
- Do not place near sources of heat, vapors, industrial machine oil or other flammable gases.
- High-frequency waves generated by radio equipment, welders and medical equipment will interfere with the normal operation of the unit.
- Install this device only when it complies with local/national legislation, ordinances and standards.
- Check the mains voltage and frequency. This unit is only suitable for an earthed electrical supply, connection voltage 230 V~ / 50 Hz. The information, specifications and parameter are subject to change due to technical modifications or improvement without any prior notice. The accurate specifications are presented on the nameplate label.
- Please read this installation manual completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with all European, national and / or local directives and standards and must be done by authorized personnel only.
- Always make sure to wear the correct personal safety protections such as protective eyewear, gloves, ear protection etc.

- This air conditioner contains a refrigerant and can be classified as pressurized equipment. Therefore always contact an authorized air conditioning engineer for installation and maintenance of the air conditioner.
- The air conditioner must be inspected and serviced on an annual basis by an authorized air conditioning engineer.

INDOOR UNIT POSITION

The air inlet and outlet vent should be away from any obstruction, ensuring that there is a good airflow through the whole air-conditioned space. Select a position where the condensing water can be easily drained out, and the indoor unit can be easily connected to outdoor unit. The wall where the unit is fixed should be strong enough to withstand the full weight and vibration of the unit. The unit should be accessible for service maintenance. The height of the installed unit should be ideally more than 200cm from the floor. The air conditioner must not be installed in a wet environment such as a bathroom, shower or swimming pool etc.

OUTDOOR UNIT POSITION

A convenient position, dry and well ventilated, outside of direct sunlight or strong winds, which is not on flood line and where noise and airflow does not cause interference or inconvenience. Select a location where there are no obstructions to the inlet and outlet vents. The location should be able to withstand the full weight and vibration of the outdoor unit and permit safe installation.

Make sure that the outdoor unit is installed in compliance with the installation dimension diagram with easy maintenance access. Select a place where it is out of reach of children. Do not block utilities access or fire escapes.

The external unit must be lifted and put in place by two people.

NOTES:

- 1. Only use a power supply with the correct ratings, making sure the correct sized power cables are used
- 2. The appliance shall be installed in accordance with standard wiring regulations by qualified personnel
- 3. Only replace fuses according to their printed rating or corresponding pcb boards.

RECOMMENDED INSTALLATION SPACING DIAGRAM



TOOLS RECOMMENDED FOR INSTALLATION

Electric drill





Screwdrivers



Core hole Cutter



Number 14 (7mm) Masonry drill



1.5 inch number 10 screws roundhead slotted



7mm wallplugs



Pipe & cable detector







Tape measure

Spirit Level



Pencil and chalk







Protective glasses and mask



4 inch plastic ties

Also the following



2 inch Pipe clips



Circuit breaker



Garden gloves when lifting the outdoor unit



Dustsheets



Foam Filler



Silicone sealant and gun



1. Check the area for any hidden wires or pipes.



4. Tap home a 7mm wallplug.



 Drill the rest of the holes and tap in wallplugs



10. Drill the hole at a slight downward angle. When you feel the pilot drill exit the outside wall stop



2. Mark the right hand backplate screw position.



5. Screw the backplate to the wall using 1.5 inch number 10 screws.



8. Fix the backplate to the wall.



11. Finish the hole from the outside to keep it clean



3. Remove the backplate and drill a 7mm hole.



6. Check level, mark the other holes and swing the backplate away.



9. Mark the hole centre make sure the cutter will clear the backplate.



12 Feed the cord and drain hose carefully through the wall



The piping can be lead out on the right, left or directly behind the indoor unit as seen in fig. 1. Please cut off the pipe hole guards if you are changing the pipe position. The unit also features alternative guards for more pipe positioning.

Make sure that the drain pipe is underneath the pipelines. (Fig.3) (When the drain pipe passes the room interior, some condensed water might occur to its surfaces if the humidity is very high).

Tidy up the copper pipes, electrical cables and water drains and pass them through the wall hole drilled earlier (fig.2).

Hang the mounting slots of the indoor unit on the wall mounting bracket making sure is tight in place (fig.3) so

that the hooks at the bottom of the indoor unit match the hooks of the wall mounting bracket (fig.4)

Notes:

- 1. The height of the installed unit is recommended to > 200 cm.
- 2. Either the indoor unit or the outdoor unit can be higher, but the height difference must comply with a max. 5 metres level difference.
- 3. Try to avoid bending the pipes as much as possible so as to avoid possible negative impacts upon the performances of the unit.

INSTALLATION OF THE OUTDOOR UNIT

Try to move the product to the installation location in its original packaging

As the gravity center of the unit is not at the installation center, special caution should be taken when using hoisting cables to lift it up

During transport, the outdoor unit must not be tilted to over 45 degrees (also do not store the unit horizontally.

Use expansion bolts to fix the mounting supports on the wall;

Use bolts and nuts to fix the outdoor unit firmly on the supports and keep on the same level; If the unit is installed on the wall or at the rooftop, the supports have to be firmly fixed so as to resist earthquakes or strong wind.

Dimensions for parallel units installations







STANDARD PIPELINES CONNECTION & AIR PURGING

No dust or any other particles, air or moisture should be allowed to enter the air conditioning system. Careful attention should be paid when pipeline connection for outdoor unit is made. Try to avoid repeated curves as much as possible; otherwise damage to the copper pipes may occur. Suitable wrenches should be used when the pipeline connection is done so as to ensure appropriate torque (refer to following torque table).

Excessive torque action might damage the joints while too little torque might lead to leakage.

Torque based upon the wrench to be used

Copper pipe diam.	Tightening torque	Strengthened tightening torque
6.35(1/4")	160kgf.cm(63kgf.inch)	200kgf.cm(79kgf.inch)
9.52(3/8")	300kgf.cm(118kgf.inch)	350kgf.cm(138kgf.inch)
12.7(1/2")	500kgf.cm(197kgf.inch)	550kgf.cm(216kgf.inch)
15.88(5/8")	750kgf.cm(295kgf.inch)	800kgf.cm(315kgf.inch)

AIR PURGING WITH VACUUM PUMP

- 1. Check that pipelines connection have been properly connected, remove the charging port cap, and connect the manifold gauge and the vacuum pump to the charging valve by service hoses as shown
- 2. Open the valve of the low-pressure side of manifold gauge, then run the vacuum pump. Vacuum the indoor unit and the connecting pipes until the pressure in them lowers to below 1.5mmHG (The operation time for vacuuming is about 10 minutes). When the desired vacuum is reached, close the valve of the low pressure of the manifold and stop the vacuum pump.
- 3. Disconnect the service hoses and fit the cap to the charging valve.
- 4. Remove the blank caps, and fully opens the spindles of the 2-way and 3-ways valves with a service valve wrench.
- 5. Tighten the blanking caps of the 2-way and 3-ways valves, applying the above torque Table



ADDING REFRIGERANT

Refrigerant must be added if the pipe length is more than 5 metres (16'5"). This operation can only be performed by a professional F-Gas engineer, for the additional gas amount, see the below

Liquid pipe diameter	Additional Refrigerant	Additional Refrigerant
Φ6.3 or Φ6 (1/4)	20g per each meter added	Total length of pipe run – 5 meters) x 20 g
Ф9.52 or Ф9 (3/8)	30g per each meter added	Total length of pipe run – 5 meters) x 30 g

GAS LEAKAGE INSPECTION

After the pipeline connection is done, use a leakage inspection device to carefully check if there is any leakage at the joints. This is an important step to ensure the quality of installation. Once a leak is detected, proper action should be taken immediately.

Install the water drainage pipe

- 1. For good drainage, the drain hose should be angled downwards.
- 2. Do not pull on or bend the drain hose or flood its end with water.
- 3. When the long drainage hose passes through indoor areas, it should be wrapped in insulation.



NOTES:

The copper pipe used in the refrigeration lines are very soft, high pressure copper and prone to get damaged if not handled correctly. Try to avoid bending or stretching the pipework. Always use the pipe's foam protectors and the plastic ring before putting the pipes through the wall. Those will help prevent damage to the pipes.







To keep the allowed bending radius please make the packed soft pipes vertical before extending			Please do not extend only one side of the packed soft pipes.
Please make use of semicircle pulley to keep the allowed bending angle	Å	X	Extreme bending could damage the pipes
Please use a twisting wheel to avoid improper bending.			Over bent soft pipes will lead to irregular bending
Please use rigid elbow to keep the bending angle while soft pipes operating.	Ĵ	Ľ	Undersize bending will damage the soft pipe.
Please keep the minimum bending angle while installing			Do not use short sharp angle bends.

ELECTRICAL WIRING DIAGRAMS



Iqool24:



OUTDOOR UNIT Iqool9/12



Iqool18



Iqool24



TROUBLESHOOTING AND SELF DIAGNOSIS

MALFUNCTION	POSSIBLE CAUSE
The appliance	Power failure
does not	Damaged indoor/outdoor unit fan motor
operate	Faulty compressor thermomagnetic circuit breaker
	Faulty protective device or fuses
	Loose connections
	Self protection in adverse conditions
	Voltage higher / lower than the voltage range
	Active TIMER-ON function
	Damaged electronic control board
Strange odour	Air filter dirty
Noise of running	Back flow of liquid in the refrigerant circulation
water	
A fine mist	This occurs when the air in the room becomes very cold, for example
comes from	in the COOLING or DEHUMIDIFYING modes.
the air outlet	
A strange noise	This noise is made by the expansion or contraction of the front panel
can be heard	due to variations in temperature and does not indicate a problem.
Insufficient	Inappropriate temperature setting.
airflow, either	Air inlet or outlet of indoor or outdoor unit has been blocked.
hot or cold	Air filter is blocked.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance	Remote control is not near enough to indoor unit.
does not	Battery in Remote controller may have been exhausted.
respond to	Obstacles between remote control and signal receiver in indoor unit.
commands	
The display is	Active LED function
off	Power failure
event of:	r conditioner immediately and cut off the power supply in the
Strange noises du	
Faulty electronic	
Faulty fuses or sw	
	r objects inside the appliance.
Overheated cable	· · · · · · · · · · · · · · · · · · ·
	s coming from the appliance.

ERROR	SIGNALS ON THE DISPLAY	
In case	of error, the display on the indoor unit	shown the following error codes:
Error	Light flash code	Failure type
Code		
E0	Run & Timer – both blinking	Indoor and outdoor communication
		failure
EC	Run & Timer – both blinking	Outdoor communication failure
E1	Run – 1 flash every 8 seconds	Indoor room temperature sensor
E2	Run – 2 flashes every 8 seconds	Indoor coil temperature sensor
E3	Run – 3 flashes every 8 seconds	Outdoor coil temperature sensor
E4	Run – 4 flashes every 8 seconds	System abnormity
E5	Run – 5 flashes every 8 seconds	Model configuration wrong
E6	Run – 6 flashes every 8 seconds	Indoor fan motor fault
E7	Run – 7 flashes every 8 seconds	Outdoor temperature sensor
E8	Run – 8 flashes every 8 seconds	Exhaust temp. sensor
E9	Run – 9 flashes every 8 seconds	IPM drive and module fault
EF	Run – 10 flashes every 8 seconds	Outdoor fan motor fault (DC motor)
EA	Run – 11 flashes every 8 seconds	Current sensor fault
EE	Run – 12 flashes every 8 seconds	EEPROM fault
EP	Run – 13 flashes every 8 seconds	Temp. switch fault (on top of the
		compressor)
EU	Run – 14 flashes every 8 seconds	Voltage sensor fault
	ion Display Code List	1
P1	Run and Timer – 1 flash every 8	Overvoltage /lower voltage protection
	seconds	-
P2	Run and Timer – 2 flashes every 8	Overcurrent protection
	seconds	
P4	Run and Timer – 4 flashes every 8	Exhaust over temperature protection
	seconds	
P5	Run and Timer – 5 flashes every 8	Too cool protection in cooling mode
	seconds	
P6	Run and Timer – 6 flashes every 8	Overheat protection in cooling mode
D7	seconds	
P7	Run and Timer – 7 flashes every 8	Overheat protection in heating mode
D 0	seconds	
P8	Run and Timer – 8 flashes every 8	Outdoor over temperature
DO	seconds	/ lower temperature protection
P9	Run and Timer – 9 flashes every 8	Drive protection (software control)
DO	seconds	Modulo protoction (hardware control)
P0	Run and Timer – 10 flashes every 8	Module protection (hardware control)
	seconds	

OUTDOOR UNIT FAULT CODES

The outdoor unit has an LED on the power board. This LED will be illuminated when the compressor is running and blink 1s on and 1s off when the compressor is in standby. If there is a fault on the outdoor unit, it will blink on and off for half a second at a time, followed by a 3s gap. The number of consecutive blinks will show the fault as per the table below:

No. of blinks	Fault
1	IPM protection
2	Over voltage /lower voltage
3	Overcurrent
4	Exhaust over temperature protection
5	Outdoor coil over temperature protection
6	Drive fault and protection (V1, VP1)
7	Communication fault with indoor unit
8	Compressor overheat fault (compressor top switch)
9	Short-circuit / open-circuit fault of outdoor temperature sensor
10	Short circuit / open-circuit fault of outdoor heat exchanger temperature
	sensor
11	Short-circuit / open-circuit fault of exhaust temperature sensor
12	Voltage sensor fault
13	Current sensor fault
14	IPM fault
15	Communication fault between power source board and IPM
16	No feedback from DC fan motor(outdoor unit)
17	Defrost state

WIFI CONTROL TROUBLESHOOTING

Description	Possible Cause							
Air conditioner	1. Check the mobile device is connected to WIFI							
can't be configured	2. Check the AC is connected							
successfully	3. Check that any firewall or other restrictions are causing problems							
	4. Check the router is functioning normally							
	5. Check that the router isn't blocking the App							
Mobile device can't	The app displays "Identification failed". This indicates that the AC has							
control the air	been reset and the mobile device has lost contact with the AC.							
conditioner	Reconnect the device following the above instructions. If this fails, delete							
	the AC from your devices list and start the install process from the							
	beginning.							
Mobile device can't	The app displays "Air conditioner out of line". Check the below:							
find AC	1. The AC has been reconfigured							
	2. The AC is not receiving power							
	3. The router is not powered on							
	4. The AC can't connect to router							
	5. The AC can't connect to network through the router							
	The mobile device can't connect to the router							
	7. The mobile device can't connect to a network (when being used							
	remotely)							

TECHNICAL SPECIFICATION

Model	lqool9 – v3		lqool1	lqool12 – v3		8 – v3	lqool24 – v3		
Rated voltage and frequency	1Ph/220-		1Ph/220-		1Ph/220-		1Ph/220-		
(Ph-V-Hz)	240V~	-/50Hz	240V~	240V~/50Hz		240V~/50Hz		/50Hz	
Fuse Required	13	3A	13	13A		13A		16A	
Mode	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Rated capacity (W)	2520	2570	3230	3290	5120	5230	6810	6850	
	(900 \sim	(900 \sim	(1000 \sim	(1000 \sim	(1310~	(1330~	(1500~	(1500~	
	3200)	3200)	3720)	3830)	5730)	6540)	7310)	7530)	
Power input (W)	740	640	1090	1000	1500	1500	1940	1988	
	(300 \sim	(230 \sim	(320 \sim	(320 \sim	(500 \sim	(500 \sim	(350~	(300~	
	1265)	1200)	1300)	1450)	2100)	2350)	2800)	3200)	
Current input (A)	4.3(1.3~	3.2(1.3~	5.2(1.4	4.6(1.4	6.7(2.3~	6.7(2.3~	8.5(1.7~	8.7(1.5	
	5.5)	6.4)	\sim 6.5)	\sim 5.9)	9.6)	10.8)	13.5)	~15.5)	
SEER/SCOP(W/W)	6.1/A++	4.0/A+	6.1/A++	4.0/A+	6.3/A++	4.0/A+	6.3/A++	4.0/A+	
Nominal load (kW)	2.52	2.57	3.23	3.29	5.12	5.23	6.81	6.85	
Balance point temperature	/	-7	/	-7	/	-7	/	-7	
heating (°C)									
Min. outdoor operating	/	-15	/	-15	/	-15	/	-15	
temperature (°C)									
Thermostat-off mode (W)	3	5	3	5	5	1	42.5		
Standby mode (W)		4	4		2		6.76		
Off mode (W)	()	()	()	0		

Annu	al consumption (kW)	143	875	184	980	270	1785	378	2100				
	per Pipe Type length	5	m	5	m	5	m	51	n				
Liq	Liquid side / Gas side		6.35 (1/4) + 9.52		4) + 9.52	6.35 (1/4	4) + 12.7	6.35 (1/4) + 15.88					
	(mm/inch)		/8)		/8)	(1/2)						(5/	
Max.	refrigerant pipe length	25	im	25	ōm	25	ōm	25	m				
	Max. elevation	10)m	1()m	10)m	10	m				
Inte	erconnecting Cable	4×1.()mm²	4×1.	0mm²	4×1.5	5mm²	4×1.5	5mm²				
	Fuse Rating	3.15A o	n indoor	3.15A o	n indoor	3.15A o	n indoor	3.15A o	n indoor				
		PC	СВ	P	СВ	PC	СВ	PC	В				
Moi	sture Removal (L/h)	0.	.8		1	1.	.2	2.	4				
	Air Flow (m ³ /h)	55	50	5	50	800/	/815	1000/	1100				
	Dimensions (L*W*H)	777×25	50×205	777×2	50×205	910×29	92×205	1010×3	15×220				
	(mm)												
	Packaging (L*W*H	848×31	18×277	848×3	18×277	977×37	70×275	1094×3	86×300				
	(mm)												
Indoor	Net / Gross weight	8.5/	10.5	8.5/	10.5	10/	/13	13/	'16				
lnd	(Kg)												
	Noise – Sound	19-	-40	19	~40	27-	~43	30-	-44				
	pressure level												
	(dB/A)												
Noise – Sound		29-	-50	29	~50	37-	~53	40-	-54				
	power level (dB/A)												
	Dimension (L*W*H)	700×55	52×256	700×5	52×256	780×60	05×290	902×650×307					
	(mm)												
	Packaging (L*W*H)	803×58	35×325	803×5	85×325	883×65	53×412	1015×7	20×425				
	(mm)												
	Net / Gross Weight	24/	/27	25	/28	37/41		50/	56				
	(Kg)												
	Noise – Sound	5	0	5	50	5	5	5	8				
	pressure level												
Outdoor	(dB/A)												
outd	Noise – Sound	6	0	6	50	6	5	6	8				
0	power level (dB/A)					D 440.4	4050	D 4404	10000				
	Refrigerant	R410A	v650g	R410/	4/780g	R410A	/1350g	R410A	/2000g				
	type/weight Defrost mode	Auto	matia	Auto	motio			Autor	motio				
	Demost mode	Automatic defrosting			Automatic defrosting		Automatic defrosting		Automatic defrosting				
	Applicable climate		isting I (0ºC –		g (0°C –		g (0°C –	Cooling					
	Applicable climate	53°) (0°C – °C)	-	9 (0°C – °C)	-					
	types		sC) g(0°C –				,	53°C)					
		⊓eaung 30º			Heating(0°C – 30°C)		Heating(0°C – 30°C)		Heating(0°C – 30°C)				
	Due to cont		,		,		,		0)				

Due to continuous product development process specification may change. These units contain a gas governed by F-Gas regulations. The gas must be handled by qualified F-Gas engineers.

APPENDIX



Disposal: Do not dispose this product as unsorted municipal waste. Collection of such waste must be handled separately as special treatment is necessary. Recycling facilities are now available for all customers at which you can deposit your old electrical products. Customers will be able to take any old electrical equipment to

participating sites run by their local councils. Please remember that this equipment will be further handled during the recycling process, so please be considerate when depositing your equipment. Please contact the local council for details of your local household waste recycling centres.

WARRANTY INFORMATION

TCL guarantee provides cover against material or manufacturing faults. This means that if your air conditioner develops a fault during the guarantee period, we will arrange for it to be repaired or replaced.

Faults arising from a faulty installation are specifically excluded.

The system must be serviced annually by qualified personnel.

This unit must be operated under conditions as recommended in this user manual, at voltages indicated on the unit. Any attempts made to service or modify the unit by unqualified person, will render this WARRANTY VOID. This warranty is in addition to, and does not affect, your statutory rights. Our warranty is RTB warranty and cover parts and labour only.

We recommend that you note the details of your purchase below and retain your original proof of purchase receipt with this manual. Keep these documents safe in the event of a warranty claim.

Purchase Date:	
Retailer name:	
Model number:	
Serial number:	
Installation Date:	
Installer name:	
Service Date:	
Engineer/ Company name:	

TCL UK SUPPORT

Please, for your own convenience, check the troubleshooting guide before calling the service line.

If the unit still fails to operate call: 0871 620 1057 or complete the online form Office hours: 9AM - 5PM Monday to Friday

> TCL AIR CONDITIONING Unit J6, Lowfields Business Park Lowfields Way, Elland West Yorkshire, HX5 9DA