TCL



2023 TCL RESIDENTIAL AIR CONDITIONER

Catalogue

TCL

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TCL-TO BECOME THE WORLD'S LEADING SMART TECHNOLOGY ENTERPRISE

In 2019, TCL, namely The Creative Life, completed the handover of major assets in a re-structuring and was split into TCL Technology & TCL Industries.

GLOBAL FOOTPRINT

- 43 R&D centers
- 960M Global users
- 130K Employees world wide
- 10 Joint laboratories
- 160 Countries/regions of business coverage
- 32 Manufacturing facilities
- 10 Global Service Centers

REVENUE 2022

$24.3B	**TCL Technology** 166.6 Billion in CNY
$15.5B	**TCL Industries** 106 Billion in CNY

BRAND VALUE

$17.79 B

USD 17.79 Billion in 2022
4.7% ↑



GLOBAL BRANDING & RECOGNITION

Global Branding



GT World Challenge Asia Esports/ Exclusive Partner Since 2020



Rodrygo Silva de Goes Global Brand Ambassador



Melbourne Victory FC Football, Australia, Since 2016

Sunrisers Hyderabad/ Official Sponsor, Since 2020



Yokohoma DeNA BayStars/ Ocial Partner Since 2021



Entertainment Sponsorship: Official TV of the Ellen DeGeneres Show





Melbourne Cup Horse racing, Australia, Since 2020



International Basketball Federation (FIBA) Global Partner



The Rose Bowl Stadium American Football, USA Official TV sponsor

The Philippine Basketball Association (FBA) The Philippines Since 2015



TCL CHINESE THEATRE USA Since 2013



CONMEBOL Copa America Global Partner



Global Honor

TCL Industries Awards

EISA Award – Best Product EISA Award 2020-2021

TV GOLD AWARD International Data Group (IDG) 2020

iF DESIGN AWARD 2020 (TCL RAY • DANZ Soundbar TS9030)
iF DESIGN AWARD 2020

Home Theater Gold Award (TCL) IFA 2019

Reddot Product Design Award C2 Series Reddot 2018

Reddot Product Design Award Reddot 2021

TCL Air-Conditioner Awards

Red Dot Winner 2022

Smart Manufacturing Award ChinaIOL . com 2021

CMF Design Award 2021

Red Dot Winner 2022

Honor Certificate - China Top 10 AC Brand CHEAA 2020

Brand Awrd for Smart Technology Innovation CAIS 2020-2021

Soft-wind Technology Award CAIS 2020

AWE Award AWE 2021

Milestone

- 1981 — TCL Established
- 1986 — China's 1st Handsfree Telephone
- 1992 — China's 1st 28" Color TV
- 1999 — Enter Into AC Business 1st Oversea Subsidiary in Vietnam
- 2004 — Listed as TCL Group (SZ.000100) China's 1st Titangold AC Acquired "Thomson TV" and "Alcatel"
- 2006 — Delonghi JV Established China's 1st R290 AC China's 1st Dualcore Notebook Computer
- 2008 — China's 1st PFC AC China's 1st R290 AC
- 2013 — World's largest 110" 3D LCD TV
- 2014 — China's 1st Quantum Dots TV "Intelligence+Internet", "Product+Service" Strategic Business Transformation
- 2015 — Acquired "PALM"
- 2016 — Acquired "BlackBerry" Brazilian SEMP JV Established China's 1st Security & Musical AC
- 2017 — AC Sales Exceeds 10 Million Sets Argentine JV Established 1st True Intelligent AC Revealed
- 2018 — India Industrial Park Started Construction TCL Europe R&D Center Unveiled in Poland
- 2019 — Restructuring: TCL Technology & TCL Industries Vietnam Manufacturing Base Started Construction Indonesia AC Base Established
- 2021 — AI X IOT Smart Home Application
- 2022 — New TCL Commercial AC Base & Wankezi Inverter Controller Base Were Established

SMART HEALHY AIR WE ENJOY



TCL AC
24 Years
1999-2023

Vision

Make it easier for you to enjoy more comfortable & healthier air.

Mission

Focusing on R&D, innovation & popularization of smart & healthy air management & technology.

POWERFUL GLOBAL SUPPLY CHAIN



Brazil Base



New Wuhan Base 400,000㎡ Industry Park

China



Indonesia Base



TCL Rechi J.V.



TCL Delonghi



Wankezi Inverter Controller Base



Jiujiang Base



New Commercial AC Base 34,000㎡



SKD Base



Zhongshan Base 1



Zhongshan Base 2

- 11 Manufacturing Centers Worldwide
- 30 Million Sets / Year
- Top 3 AC Export Ranking

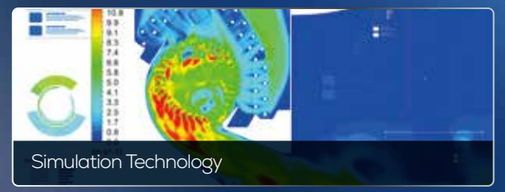
Currently, TCL has 11 global AC manufacturing bases in China, Indonesia, Brazil, etc.

ISO 9001:2008 / ISO 14001:2004 /OHSAS 18001:2007

STRONG R&D & QUALITY ASSURANCE



High Quality Standards


Simulation Technology


300+ Whole Unit Testing


600+ Whole-process Inspection Procedures

- Transportation Test
- Drop Test
- Long-life Test
- Noise Test
- Performance
- Reliability Test
- Function Test
- Leakage Test

◀ Electric Control Testing

▼ Electricity Labs

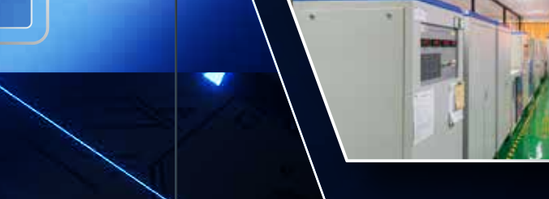




◀ Physicochemical Labs



System Testing ▼



▲ Enthalpy Difference Test



Environment Testing ▼



▲ Components Testing Room



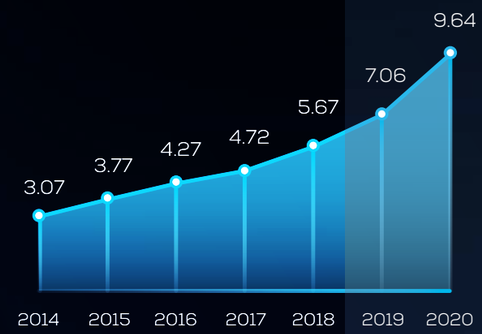
System Testing ▼



▲ Noise Testing

R&D investment

R&D investment amount (million CNY)



Patents

TCL Total Patent Applications



Foreign patents 18.65%
PCT patents 18.52%
Asian patents 52.85%

Data source: TCL internal survey data / as of 2020

AUTOMATIC MANUFACTURING

High Automation Coverage



Automatic Pipe Assembly Welding



Evaporator Cutting & Lifting



Automatic Compressor Assembly



Automatic Packing



Automatic Welding



Automatic Vacuum Leak Detection



High Speed Punching

Automatic Turning Over

Keep Investment on Automation

↑17% Efficiency



Automatic Stacking



Automatic Evaporator Tube Installing





Automatic Regular Safety Test

Automatic Compressor Assembly



Automatic Long U-Pipe Cutting & Bending



AGV Materials Delivery

Manufacturing Execution System

Through monitoring, tracking, gathering real-time accurate data, to achieve effective operation & increase production output.

Visualized, Digitized & Traceable



99.4%

Products First Pass Rate



13%↓

Missing Part or Incorrect Assemble (Rate)

DIGITALIZED MANUFACTURING



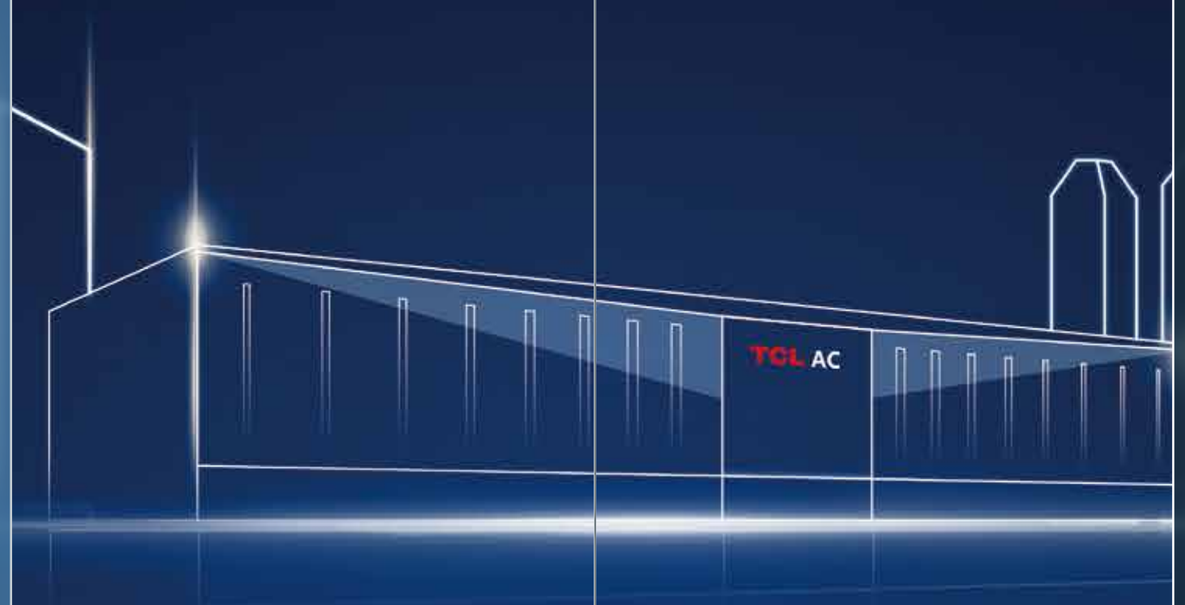
Digitalized Production Line

- 6+1 industrial Internet platform
- Digital twin technology



Lights-off Factory

- Fully automated production line
- 24 hours lights-off
- Whole process of digital management





Green Factory

- Full photovoltaic coverage
- ‘Sponge City’ smart water cycle system
- Zero carbon emissions & intelligent treatment of waste gas, waste water, etc.



World’s 1st Dust-free Fresh AC Production Line

- Dust free management of key parts
- Radio frequency identification
- Internet of things and processes
- Quality real-time management

LEADING INVERTER TECHNOLOGY

By applying TCL leading inverter technology, including the fuzzy query, TCL inverter air conditioners can provide more precise and comfortable temperature control, while with lower operation noise, wider operation voltage range and more energy-saving，compared to other ordinary air conditioners.

Fuzzy Control

Fuzzy control mode can provide more precise & efficient frequency control of inverter air conditioner operation.

Precise Temperature Control

After rapidly reach the set temperature, it will maintain the set temperature with energy-saving and stable operation, without turning on/off the DC inverter components frequently, such as compressor, fan motor, etc.

10%-20% More Energy Saving

It can reach the set temperature more precisely & efficiently, saving energy consumption more logically through the TCL inverter AI algorithm, compared to other ordinary inverter air conditioners.

Intelligent Low Frequency Torque Compensation

The technology enlarges the running range of low frequency, which largely increases its controlling extent of minimal cooling capacity, in order for more precise temperature control.

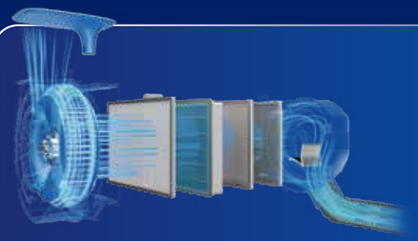
TCL 3rd Generation of PCB

Compared with ordinary PCB, TCL third generation PCB adopts single capacitor and single resistance control technology, which has high integration degree, large power density and better efficiency performance.

Global Leading Technology

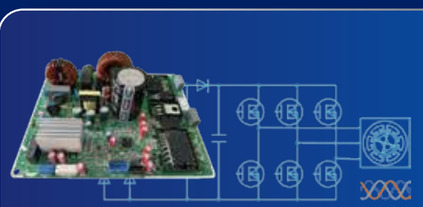
Authority: Group experts of China Refrigeration & Air-conditioning Industry Association

FIVE GLOBAL LEADING TECHNOLOGIES



Smart Technologies of Large Fresh Air Volume & High Comfort AC

Patented No. ZL 2020 2 2600638.2
Patented No. ZL 2021 2 1711396.2



New High-Efficiency Inverter Controller



Gentle Cool Wind

Patented No.: ZL 2017 2 1584326.9

Recognition authority:
Group experts of China Light Industry Council
Group experts of China Refrigeration
& Air-conditioning Industry Association



Strong Cooling in High Ambient Temp.

Patented No.: ZL 2018 2 0569699.7



Electricity Consumption Management

Patented No.: ZL 2019 1 0665336.2





Experience of
Air Cleanliness

Experience of
Air Flow Comfort

Experience of
Air Temperature

Experience of
Energy-saving

Experience of
Comfortable Humidity

Experience of
AIXIOT

Air Flow Adjustment & Noise Reduction Technology of Air-diverting

Fuzzy control mode can provide more precise & efficient frequency control of inverter air conditioner operation.



Air Resistance Reduction & Air Flow Strengthening Technology of Fresh Air Duct

It utilizes the air-diverting cone to realize the even distribution of outdoor fresh airflow in the air-intake cavity & thus maximize the fan efficiency, reduce the air resistance, strengthen the air flow & finally improve the performance of the fan system by 10.5%



Coupling Noise-reduction Technology of "Volute, Motor, Wind Wheel & Fresh Air Flow

Based on the lean simulation air duct technology and the technology of utilizing smooth duct for resistance reduction, it increases the ventilation area of air duct by 97.8%, greatly reduces the on-the-way loss & increase the air volume by 30%.



Global Leading Technology

Authority: Group experts of China Refrigeration & Air-conditioning Industry Association

EXPERIENCE OF AIR CLEANLINESS

GLOBAL LEADING FRESH AIR TECHNOLOGIES



EXPERIENCE OF AIR CLEANLINESS

FRESH AIR WITH CONSTANT TEMPERATURE

No Additional Drilling Wall Hole Required For Fresh Air Pipeline



Fresh Air With Constant Temperature.

- Intaking fresh air from outside & filtering
- Lifted air deflector led fresh air to the top filter of indoor unit
- Interflow of fresh air & ordinary room air
- The interflow flows through the evaporator for cooling/ heating



Entrance of Fresh Air

Blue Mini Wing air deflector and anti-dust



Blue display when fresh air is activated

EXPERIENCE OF AIR CLEANLINESS

56°C HIGH TEMPERATURE SELF-CLEANING & STERILIZATION





Frosting



Defrosting

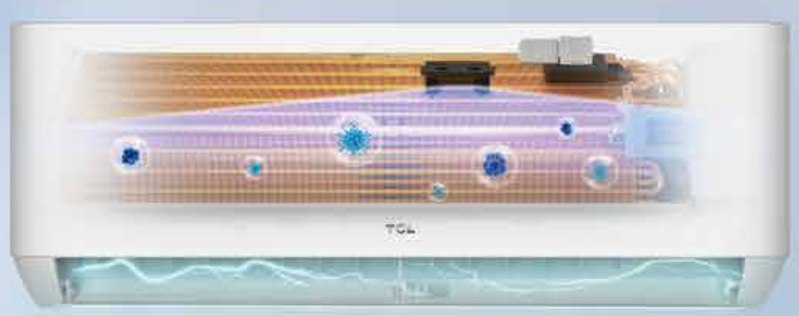


High Temperature Drying



56°C High Temperature Sterilization

– Optional – Heat Pump DC Inverter Only



B.I.G. Care+

Bipolar Ionic Generator & UVC Sterilization Pro

UVC Sterilization

Kills bacteria by damaging their protein & DNA. UVC radiation: 240nm-280nm.

Built-in Bipolar Ionic Generator

Generate large volume of plasma, atoms, strong oxidization substance, which could damage & kill the bacteria & virus. Release high energy electronics to ionizing the air. Bipolar Ionic Generator is built in the air outlet.

Bacteria Eliminating Rate:
› 98.66%

EXPERIENCE OF AIR CLEANLINESS

DISTRIBUTED HEALTHY FILTER SYSTEM

Top Opened Filter

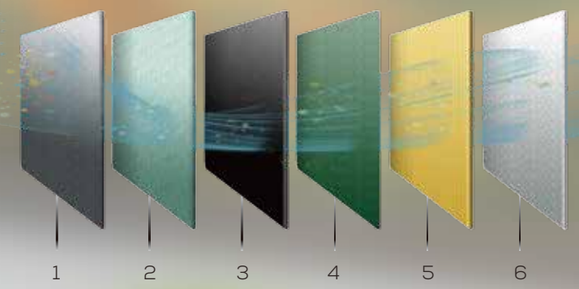
High Density: Higher efficiency in filtering dust, small particles in the air & more durable;
Nano Silver: Effective filtering of dust, small particles, etc. & excellent capability of anti-bacterial growth.

Healthy Filters

Both Singular Filter & 6 in 1 Filter Available

Singular Filter

- Silver Ion Filter
- Photocatalyst Filter
- Tea Polyphenols Filter
- Vitamin C Filter
- Active Carbon Filter
- Anti-static Filter

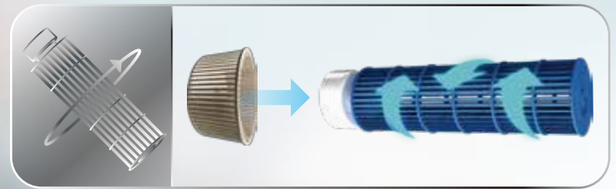


6 IN 1 Filter

1. Silver Ion Filter
2. Tea Polyphenols Filter
3. Active Carbon Filter
4. Photocatalyst Filter
5. Vitamin C Filter
6. Anti-dust Static Filter

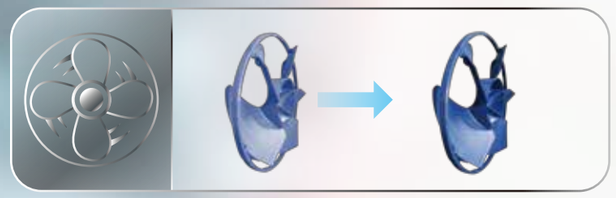
Upgraded Larger Cross Fan (Indoor)

Centrifugal fan is upgraded to larger cross fan, in order to provide larger air volume & longer air supply with lower operating noise.



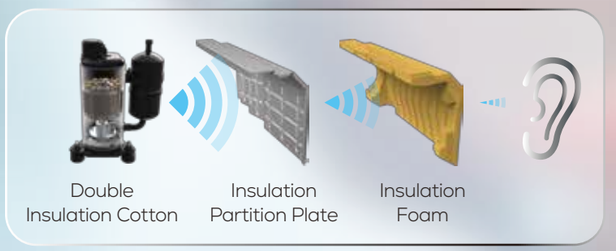
Upgraded Axial Fan (Outdoor)

Larger axial fan is applied to provide higher heat exchanging efficiency with lower operating noise.



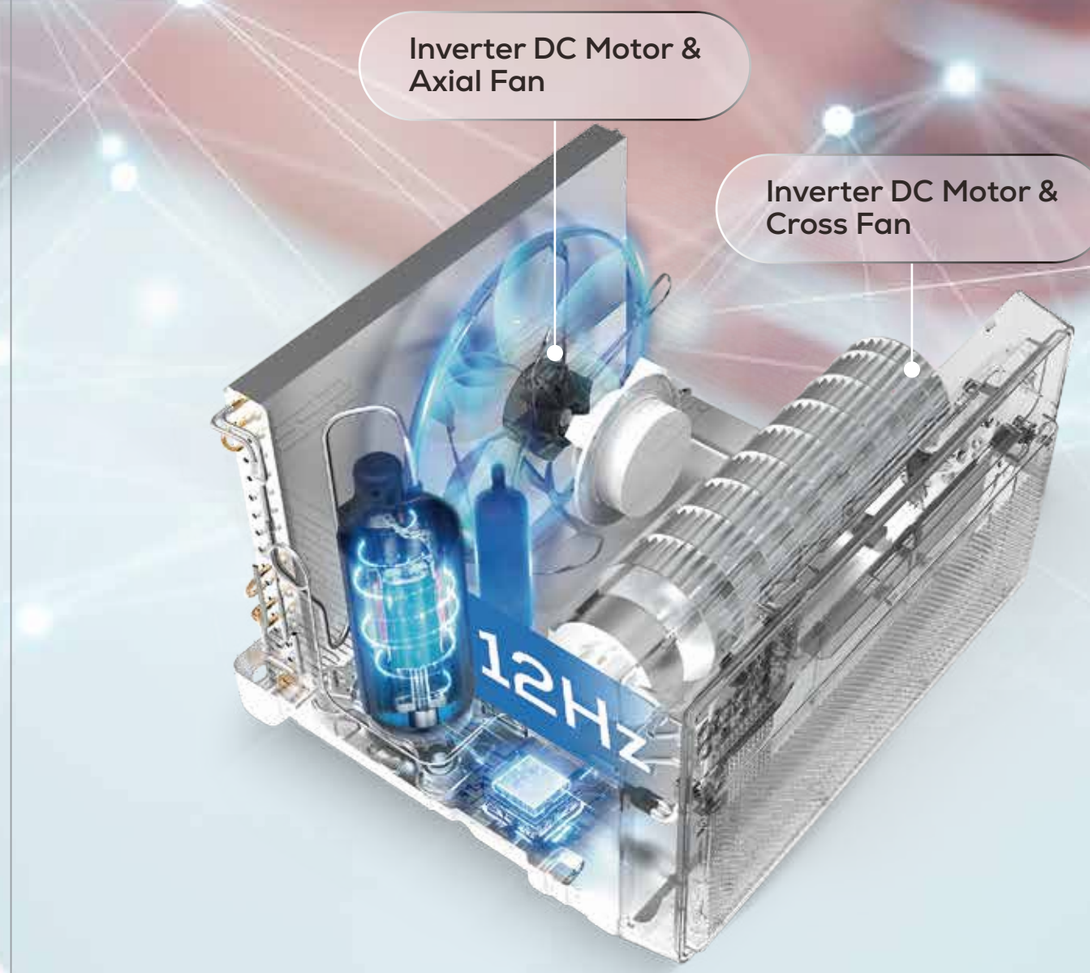
Triple Noise Reduction

Compared to ordinary window AC, TCL window ACs apply double insulation cotton, insulation partition plate & insulation foam to largely reduce operating noise, providing user with whispered window AC cooling experience at home.



EXPERIENCE OF AIR FLOW COMFORT

WHISPERED WINDOW AC COOLING



Separated Indoor & Outdoor Parts
Dual DC Fan Motor Design

EXPERIENCE OF AIR FLOW COMFORT

GENTLE COOL WIND

Patented Innovation (No. ZL201721584326.9)

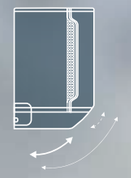
1. 14 blades, 1,106 micro holes. (Model TP800)
2. Dispers harsh wind to gentle & laminated soft wind.
3. Micro holes are upturned for better experience of air flow comfort.

Global Leading Technology

Authorities: Group experts of China Light Industry Council

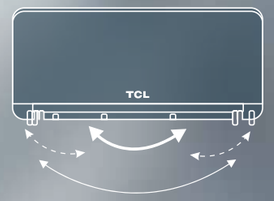


Precision Vector Air Supply



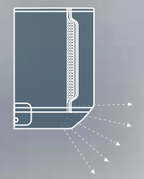
3 Swing Types(Vertical)

- Whole-house swing
-- Upside swing
– Downside swing



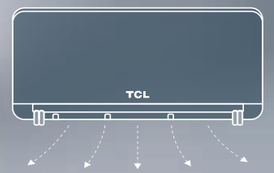
4 Swing Types(Horizontal)

- Whole-house swing
-- Side Swing (L-R)
– Middle Swing



5 Blow Types(Vertical)

-- Fix direction of air blow



5 Blow Types(Horizontal)

-- Fix direction of air blow

EXPERIENCE OF AIR FLOW COMFORT

SMART AIR FLOW

10%
Larger Air Inlet

15%
Air Volumn Increased

Through Coanda Effect, Providing Up to 4 Modes Combination of Smart Air Supply

Gentle Cool Wind/Blanket-style Air Flow/ Shower-style Air Flow/ 3D Air Supply, varied depending on different models.

Optimized Air Duct & Higher Efficiency Cross Fan

15% Area Increased
Larger Air Inlet (10% Area Increased)



Shower-style Air Flow



Gentle Cool Wind



Blanket-style Air flow



3D Air Supply

EXPERIENCE OF AIR TEMPERATURE

RAPID COOLING IN 30" & RAPID HEATING IN 60"

In Heating Mode

Outlet Temperature Increased from 20°C to 40°C in 60 "

60" → 40°C Heat Wind Blows Out in

*** Under tested condition, electrical heater required for rapid heating in 60"**

Chill Wind & Hot Wind

8°C Chill Wind — One Button to Enjoy Extreme Cooling at 8°C.

50°C Hot Wind — One Button to Enjoy Extreme Heating at 50°C.

In Cooling Mode

Outlet Temperature Decreased from 25°C to 18°C in 30 "

30" → 18°C Cool Wind Blows Out in

TCL Super Turbo Start VS Normal Starting

Once activated, the compressor will run at an ultra high frequency , to reach the set temperature ASAP.

60°C Strong Cooling in High Ambient Temperature

60°C
Ambient: Still Good Cooling!

50°C
Ambient: Full Capacity as Rated!

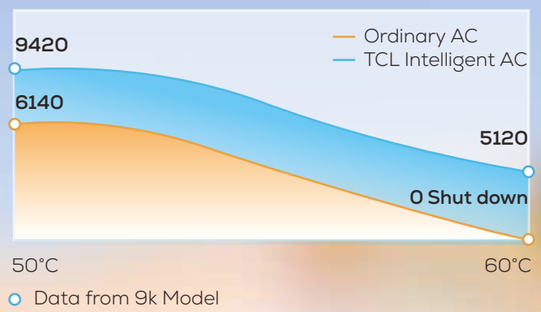
Innovated Air-cooled PCB Box

Outside cooler air is flow through the PCB box via the compressor cavity, because of the negative pressure generated by the outdoor fan, in order to cool down the electric parts of outdoor unit.

Global Leading Technology

Authorities : Group Experts of China Light Industry Council.

Cooling Capacity Comparison (Btu/h)



EXPERIENCE OF AIR TEMPERATURE

STRONG COOLING/ HEATING IN HIGH/ LOW AMBIENT TEMPERATURE

-25°C Strong Heating in Low Ambient Temperature

-25°C

Chassis heating belt & highly efficient compresor

Through the chassis heating belt & highly efficient compressor, the unit is able to perform excellent cooling in the ambient temperature of up to -25°C.



EXPERIENCE OF COMFORTABLE HUMIDITY

COMFORTABLE COOLING

Normal Comfortable Humidity 40%- 60%

Humidity Control VS **Low Humidity**

TCL Comfortable Cooling | Ordinary Cooling

Avoid too much dehumidification & maintain the most comfortable humidty while maintaining the set temperature.



R290

1st application of R290 in AC industry in China.
A refrigerant with good heat transmission, higher efficiency, energy saving & environmental protection.

R32

A refrigerant can convey heat efficiently, it has much lower GWP compared to R22 and R410, and is remarkable for its low environmental impact.

EXPERIENCE OF ENERGY SAVING

ELECTRICITY CONSUMPTION MANAGEMENT

Electricity Consumption Management

Electricity Monitoring

Visible Electricity Consumption Chart.

Customized Power Saving

Quota of Electricity to save money.
Quota of Set°C to save money.

Ultra-low Frequency Running

When set temperature is reached and the compressor is under light load, it can operate at an ultra-low frequency to save energy while maintaining a constant & comfortable temperature.



AI Inverter Algorithm

Compare to ordinary ones, TCL AI inverter algorithm is self-optimized, faster & smoother, which can reach the set temperature quicker & operates more precisely and Stably.



Global Leading Technology

Authority: Group experts of China Light Industry Council

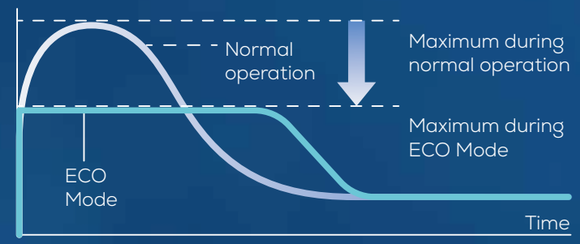
EXPERIENCE OF ENERGY-SAVING

Smart ECO

By activating the Smart ECO mode, the air conditioner will automatically work in the most efficient and energy-saving way, while maintaining the most comfortable sleep experience in the room.

From start-up until set temperature is reached

Running current and power consumtion



Gen Mode

By limiting its rated power and current, the air conditioner can operate normally. This effectively solves the problem of insufficient power supply or power interruption. In view of the ambient temperature is too high or the voltage is too low, the power output of generator will be automatically raised to let the unit run without stopping.

- LV1 Rated power is about 30%
- LV2 Rated power is about 50%
- LV3 Rated power is about 70%

1W Standby

When the unit is standby with power connected, its power consumption is optimized to be as low as 1W, which is more energy-saving, comparing to other ordinary ACs.

EXPERIENCE OF AI X IOT



WIFI Control

Control the AC through APP & internet IOT connection with other applicable home appliances.

Smart Body Sensor

Direct Wind Mode – Wind will be automatically directed and tracking users' movement.
Indirect Wind Mode – Wind will be automatically directed and away from user.

4m

23°C

AI Voice Control

Voice control based on deep neural network.

Reservation

Automatically reach preset room temperature before arriving at home.

Step 1 Preset your desired settings.
Step 2 Activate reservation via APP.
Step 3 01. Automatically check the ambient temperature.
02. Automatically turn on AC.
Step 4 Reach the presetting at set time.

Dual Temperature Zones

Create 2 temperature zones in the room.

Smart Sleep Mode

Basing on the regular body temperature curve of human' s sleep, the unit will automatically adjust the room temperature according to its initial settings and running time.

6m

26°C

TCL AC | SMART HEALTHY AIR WE ENJOY

FREE MATCH

Choose It the Way You Like

Wide Range Combination

Only one outdoor unit is required to connect to various combination of indoor units, to meet with different needs.Space saving & cost saving, as only one outdoor unit is needed.

Low Watt Standby

Under standby mode, its power consumption is ranging from 0.5w to 2w, depending on different combination.

Smart Refrigerant Flow Distribution Control

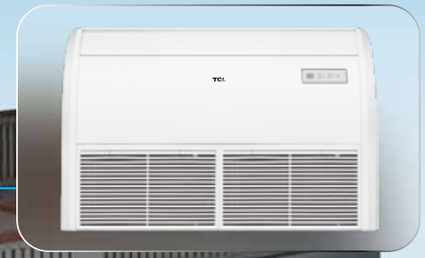
Through the expanding valve of outdoor unit, the inverter system can intelligently control the amount of refrigerant flow according to users setting of different indoor units, ensure the cooling/heating is comfortable and energy-saving.

Wide Range of Operation Voltage

Operation voltage ranges from 150V to 265V, which is fit for different users who are living in various power supply status.

WIFI Control (Optional)

With WIFI function, users can easily control the unit outside the house, through the smart APP and internet.











TRI-THERMAL SPLIT ATW HEAT PUMP

Both Split & Monobloc Available

Multiple Application

Tri-thermal is an integrated system that provides space heating and cooling as well as domestic hot water, offering a complete, all-year-round solution to users.

Highly Efficient and Energy Saving

- GMCC inverter compressor is applied
- Highly efficient L-type heat exchanger
- Stepless inverter fan motor
- Plate heat exchanger
- Multiple certifications
- Environmentally friendly refrigerant

Safe & Comfort

- Anti-bacteria mode
- Low level of noise
- Holiday daily household water in time
- Holiday mode to prevent the unit from freezing

Smart Control

APP

- Liquid crystal display wired controller with multiple settings such as multiple language, schedule, etc.
- APP controller is also available to control the unit via Wi-Fi

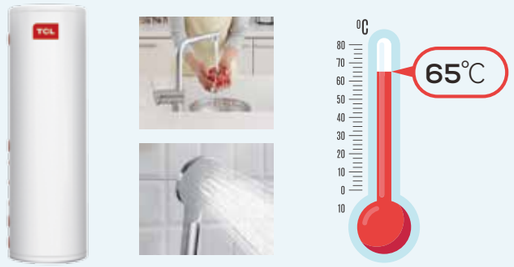
Compact fan coil unit cooling

Ultra-thin body, comfortable and beautiful
Multi-angle and all-directional wind supply



Domestic hot water

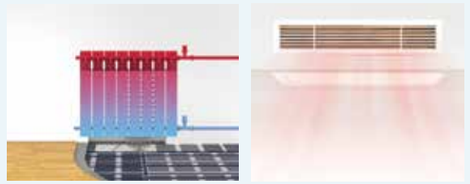
Provid DHW in time ,heating quickly
The maximum of living water temperature is 65℃



Tri-thermal Split ATW Heat Pump

Complete solution with heating, cooling & hot water





Diversified Heating

Heating by floor heating, radiator and fan coil unit
Safe and comfortable





Solar Kit

Work only with heat pump for DHW

Auxiliary Heat Source

Link with traditional gas boilers, industrial hot water and electric auxilary heating

TRI-THERMAL MONOBLOC ATW HEAT PUMP

Both Split & Monobloc Available

Cascade Control

Up to 8 outdoor units can be connected to achieve max capacity

Multiple Application

Tri-thermal is an integrated system that provides space heating and cooling as well as domestic hot water, offering a complete, all-year-round solution to users.

Highly Efficient and Energy Saving

- GMCC inverter compressor is applied
- Highly efficient L-type heat exchanger
- Stepless inverter fan motor
- Plate heat exchanger
- Multiple certifications
- Environmentally friendly refrigerant

Safe & Comfort

- Anti-bacteria mode
- Low level of noise
- Holiday daily household water in time
- Holiday mode to prevent the unit from freezing

Smart Control & OTA Upgrade

- Liquid crystal display wired controller with multiple settings such as multiple language, schedule, etc.
- APP controller is also available to control the unit via Wi-Fi
- Over-the-Air remote upgrade is available

Air Handler Unit

Excellent Performance & Convenient

High Efficiency

It can reach 16SEER+

Environmentally-Friendly

It apply R-410a environmentally-friendly refrigerant

More Precise Refrigerant Control

It applies thermostatic expansion valve to throttle

Convenient Connection

It is design with 24V thermostat compatibility

Five-level Wind Speed

Users can choose up to 5-level of wind speed to meet with different needs.

High Static Pressure

Its max static pressure of indoor unit can reach up to 200Pa



Top Discharge ODU



No Wall Hole Expansion Needed

Regular AC wall hole is ok, no need of another wall hole or to expand wall hole.

Global Leading Technologies Recognized

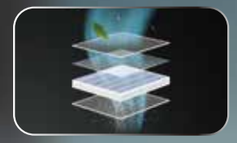
- Authorities : Group experts of China Refrigeration & Air-conditioning Industry Association.
- Smart technologies of large fresh air volume & high comfort AC.
- New high-efficiency inverter controller technology.

Constant Temperature Fresh Air

Under cooling/heating mode, fresh air will be firstly cooled/heated before blowing out of the air conditioner , in order to reach the set temperature.

T-FRESH SERIES
SPLIT AIR-CON

Enjoyment of Gentle Air Flow Comfort



4-layer Fresh Air Filtering

Efficient filtering of air debris, dust, pm2.5 and other pollutants.



Realtime TVOC Air Quality Display

More effective air quality improvement， which can detect most pollutants such as CO2, formaldehyde, etc.

Excellent Air Quality　Medium Air Quality　Poor Air Quality



60m³/h Large Volume Fresh Air

2 times higher than standard requirement.
More effective air quality improvement, compared to other ordinary fresh ACs.



Innovative Blue Mini Wing Fresh Air Duct System

4-step fresh air intaking technology: intaking, filtering, diversion, outlet.



Fresh Air Exchange Mode

- It has 3 modes of taking in fresh air, exhausting indoor air, and two-way exchanging fresh air & indoor air.
- 60 m^3/h large fresh air volume
- 30 m^3/h indoor air exhaust volume



Indoor Circulated Fresh Air Mode

In this mode, via its centrifugal power of fresh air technology, indoor air is absorbed into the circulated fresh air system, then flow out from the outlet after it is purified.



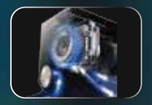
Realtime TVOC Air Quality Display

More effective air quality improvement, which can detect most pollutants such as CO2,formaldehyde, etc.

Excellent Air Quality

Medium Air Quality

Poor Air Quality



Air Duct Self-cleaning

Duct & particles are easily removed automatically once the air duct self-cleaning mode is activated.



4-layer Fresh Air Filtering

Efficient filtering of air debris, dust, pm2.5 and other pollutants.



No Wall Hole Expansion Needed

Regular AC wall hole is ok, no need of another wall hole or expanding wall hole.



L-FRESH SERIES
SPLIT AIR-CON

Enjoyment of Healthy & Fresh Air



Gentle Cool Wind

Patent for Invention:
No. ZL201721584326.9

Turbo Cooling

- Super High Frequency Starting Rapid Cooling up to 30" *
- Air Volume Increased by 20%
- Noise Reduced by 1-2 dB(A)

T-PRO SERIES
SPLIT AIR-CON

Fit Your Needs

Distributed Healthy Filter System

It is applied top opened filter that is integrated with high density filter. Also, it is optional to have multiple combination of healthy filters for effective air filtering in the room.

B.I.G. Care+

The combination of bipolar ionic generator & uvc sterilization can effectively damage & kill the bacteria & virus, provide a more healthy and clean air inside the room.

*Data from specific sample under testing condition

T-PRO SERIES
SPLIT AIR-CON

Fit Your Needs

Easy Installation
Easy Detachable Bottom Plate

Larger space for piping (10%).
One PRESS to detach the unit from the plate
Window for easy wiring.
Larger space for pipe connection (≥165mm)

20'' = Disassembly + Assembly

8'' Disassembly

12'' Assembly

Easy Cleaning Duct System & Cross Fan

ONLY 3 STEPSNeeded for a Deeper Cleaning
Step 1: Take off the blades.
Step 2: Take off the bottom plate.
Step 3: Take off the louver.
Clean the Duct System & Cross Fan.

Easy Maintenance
Convenient Leakage Check

Large space for connecting. leakage check of indoor unit.

Easy Maintenance
Quick Replacement of PCB

ONLY 3 STEPS
NEEDED FOR A DEPPER CLEANING
Step 1: Open front panel
Step 2: Take off PCB box cover
Step 3: Take out PCB for replacement

Easy Assembly
Assembly Efficiency Increased up to 12.5%

Less parts，less screws, less process



T-PRO SERIES
SPLIT AIR-CON



TP11



TP11



TP11

STANDARD

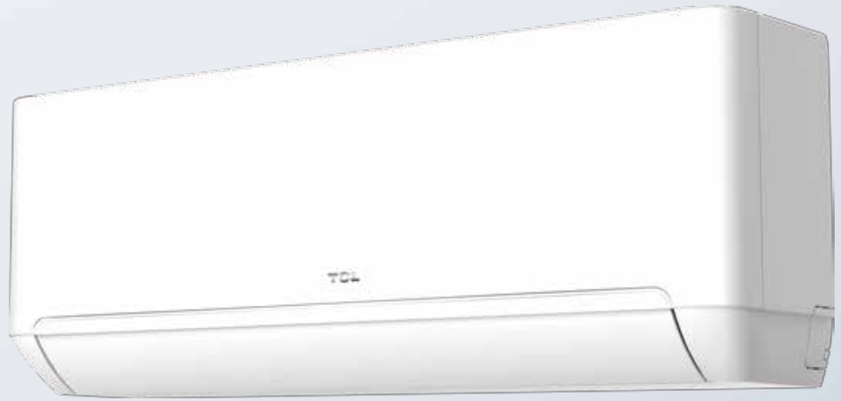


Emergency Button | Auto Mode | Sleep Mode | Smart Air flow | Independent Dehumidification | Self-diagnosis | Louver Position Memory

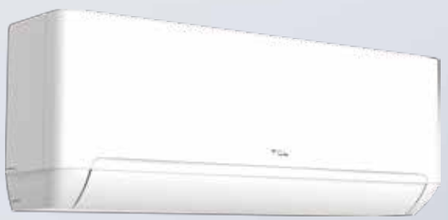
OPTIONAL



Gentle Cool Wind | Rapid Cooling in 30" Rapid Heating in 60" | Bipolar Ionic Generator & UVC Sterilization Pro. | 56°C High Temp. Self-cleaning & Sterilization | 20"+ Disassembly + Assembly | Wifi Control



TP31



TP31



TP31

STANDARD



Emergency Button | Auto Mode | Sleep Mode | Smart Air flow | Independent Dehumidification | Self-diagnosis | Louver Position Memory

OPTIONAL



Gentle Cool Wind | Rapid Cooling in 30" Rapid Heating in 60" | Bipolar Ionic Generator & UVC Sterilization Pro | 56°C High Temp. Self-cleaning & Sterilization | 20"+ Disassembly + Assembly | Wifi Control

ERA SERIES
SPLIT AIR-CON

Premium Leader

Long Distance Air Supply

Air Supply: Max 22-25 m
Air Speed: 0.3m/Sec

60°C Strong Cooling in High Ambient Temperature

Original invented air-cooled technology. Air-cooled electric control box is applied to effectively cool down temperature of electric parts in outdoor unit.

Comfortable Cooling

Maintain comfortable moisture
Comfortable humidity 40% - 60%

Rapid Cooling in 30”
Rapid heating in 60”

With TCL super turbo starting technology, the AC can reach the set temperature ASAP, and according to the test, the outlet temperature can decrease from 27°C to 18°C in about 30” in cooling mode, it can increase from 20°C to 40°C in 60” in heating mode.

Gen Mode

By limiting its rated power and current, the air conditioner can operate normally. This effectively solves the problem of insufficient power supply or power interruption. In view of the ambient temperature is too high or the voltage is too low, the power output of generator will be automatically raised to let the unit run without stopping.

3 Levels Of Current Modes

- LV 1 Rated power is about 30%
- LV 2 Rated power is about 50%
- LV 3 Rated power is about 70%

ERA SERIES
SPLIT AIR-CON



YA21



YA21



YA21

STANDARD



Emergency Button | Auto Mode | Sleep Mode | Smart Air flow | Independent Dehumidification | Self-diagnosis | Louver Position Memory

OPTIONAL



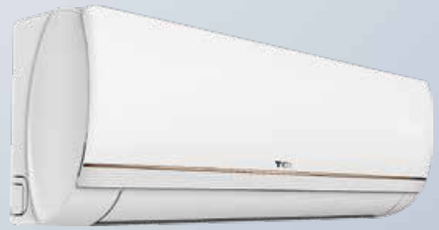
Strong Cooling in High Temperature Ambient | Electricity Consumption Management | Rapid Cooling in 30" Rapid Heating in 60" | Comfortable Cooling | 56°C High Temp. Self-cleaning & Sterilization | Wifi Control



YA31



YA31



YA31

STANDARD



Emergency Button | Auto Mode | Sleep Mode | Smart Air flow | Independent Dehumidification | Self-diagnosis | Louver Position Memory

OPTIONAL



Strong Cooling in High Temperature Ambient | Electricity Consumption Management | Rapid Cooling in 30" Rapid Heating in 60" | Comfortable Cooling | 56°C High Temp. Self-cleaning & Sterilization | Wifi Control

Smart Air Flow

In cooling mode, the cool air is blowing towards the ceiling to provide a shower-style cooling experience.In heating mode, the warm air is blowing towards the floor to provide a blanket-style heating experience.

Shower-style Air Flow In Cooling Mode



Blanket-style Air Flow In Heating Mode



Noise Reduction

Optimized air outlet and volute tongue for better heating and blowing.Optimized bending angle of the evaporator to enlarge the heat exchange area and reduce the resistance of wind, in order to improve heat exchange efficiency.1~2 dB noise reduction of the whole air conditioner.

Larger space for pipes

Larger space for pipes to increase the assembly efficiency. Reduce the interference between pipes and frame.

Better Safety Design

Insulated design from condensate water to electricity.
BMC fireproof electric control box is applied, which creates high heat resistance & erosion resistance.

The Most Compact & the Biggest Unit

Its most industrial compact unit is as small as 698mm for 7K Btu/h model.
Its biggest unit in the industry is up to 1460mm for 36K Btu/h model.

ELITE SERIES
SPLIT AIR-CON

Top Seller

ELITE SERIES
SPLIT AIR-CON



XA21



XA31

STANDARD



Emergency Button | Auto Mode | Sleep Mode | Smart Air flow | Independent Dehumidification | Self-diagnosis | Louver Position Memory

OPTIONAL



Strong Cooling in High Temperature Ambient | Electricity Consumption Management | Rapid Cooling in 30" Rapid Heating in 60" | Comfortable Cooling | 56℃ High Temp. Self-cleaning & Sterilization | Wifi Control



XAA1



XAB1

STANDARD



Emergency Button | Auto Mode | Sleep Mode | Smart Air flow | Independent Dehumidification | Self-diagnosis | Louver Position Memory

OPTIONAL



Strong Cooling in High Temperature Ambient | Electricity Consumption Management | Rapid Cooling in 30" Rapid Heating in 60" | Comfortable Cooling | 56℃ High Temp. Self-cleaning & Sterilization | Wifi Control

WHISPERED COOL SERIES
TOP DISCHARGE WINDOW AIR-CON

Let the Window Free



32 dB(A)
Lowest

3 Step Easy Installation

Step 1: Placing inside an open window.
Step 2: Securing the side bracket.
Step 3: Securing the side panels.

Extra Low Noise Operation

Lowest to 42 dB(A) in Cooling Mode
Lowest to 32 dB(A) in Fan Mode

Innovative middle partition plate is applied to effectively isolates the inner body parts from outer body parts of the unit, which largely reduce its operation noise to the lowest level of 32 dB(A).

Smart WIFI Control (optional)

You can easily control your air conditioner anywhere with your WI-FI Connection.

Long Distance Air Supply

Optimized air duct can provide longer air supply, compared to other ordinary window type air-con.

Filter Cleaning Reminder

After running for a particular period, the air-con will automatically detect the cleanliness of the filter and remind users of filter cleaning.

* Lab testing figures in fan mode

UH SERIES
TOP DISCHARGE WINDOW AIR-CON

Fashion & Stylish

Smart Voice Control

Through cloud data analysis and voice command, the unit can be controlled by voice, through the Alexa.

Filter Cleaning Reminder

After running for a period of about 500 hours, the unit will automatically remind users for filter cleaning, with a light indicated turned on.

Lower Noise

- Volute is optimized to change its equilateral round corner to gradual round corner.
- Curved design volute ring increases its duct efficiency and reduces the operation noise by 1dB to 3dB.
- Air volume is increased by 3%-5%.

8-way Air Supply

8-way air supply provides users a full range of comfortable cooling/heating experience.

The Biggest Loading QTY(5K)

- Compact design largely increases its loading QTY.
- For its 5K btu/h model, its loading QTY can reach up to 940 units/40HQ.

OTHER SERIES
TOP DISCHARGE WINDOW AIR-CON



UH
Electronic



UK
Electronic

TTW SERIES
THROUGH THE WALL WINDOW AIR-CON

Fashionable & Convenient

M SERIES
SIDE DISCHARGE WINDOW AIR-CON

Meticulous Design



4-way Air Flow

Through the coanda effect louver & vanes, air can be directed both vertically and horizontally, providing experience of 3D air flow. cooling/heating air can reach every corner of the room more effectively and efficiently.



Smart Memory of Auto Restart

In case of accidental power cut, or after being turning off, the unit is able to retain and restore the settings, when the power supply is resumed, or when it is turned on again.



Self-diagnosis

Once the error occurs, the unit will automatically identify and inform users with the corresponding error code displayed, which is convenient for maintenance.



Automatic Condensate Self-evaporated

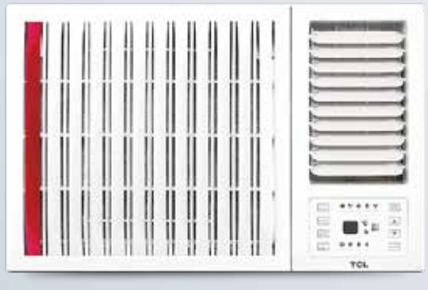
No need for condensate drainage as it will be led to the condenser automatically for evaporation, which further increase the efficiency of heat exchanging.



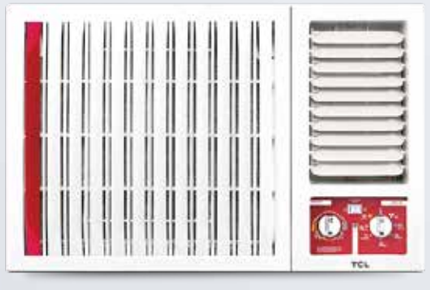
Smart ECO

By activating the Smart ECO mode, the air conditioner will automatically working in the most efficient and energy-saving way, while maintaining the most comfortable sleep experience in the room.

OTHER SERIES
SIDE DISCHARGE WINDOW AIR-CON



L Electronic



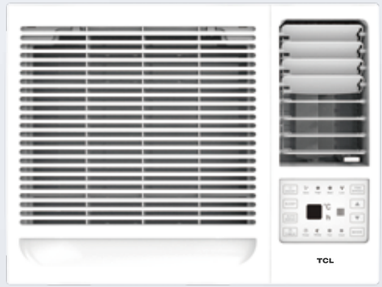
L Mechanical



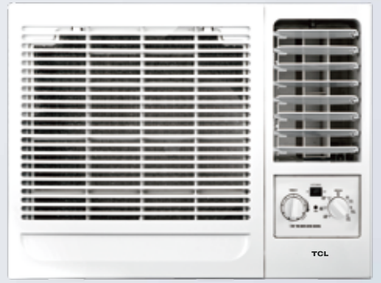
M Electronic



M Mechanical



I Electronic



I Mechanical



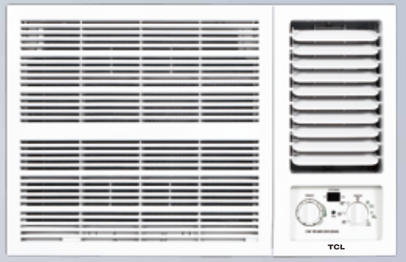
G Electronic



G Mechanical



H Electronic



H Mechanical

T-SMART SERIES
FLOOR STANDING

The Art of Luxury

Smart Body Sensor

Direct Wind Mode: The wind will be directed to follow the movement of users.
Indirect Wind Mode: The Wind will avoid directly blowing to users.
Smart Diagnosis: The closer to the AC, the weaker the wind becomes & gentle cool wind mode will be activated; The further away from the AC, the stronger the wind becomes.

Gentle Cool Wind

Patented Innovation (No. ZL201721584326.9).
Global Leading Technology, recognized by the CHINA LIGHT INDUSTRY COUNCIL.
Dispersed harsh wind to gentle & laminated soft wind.
Micro holes are upturned for better experience of air flow comfort .

Smart Dual Temperature Zones

Creative design of dual duct air supply with different temperature, which can create two temperature zones in the same living room.

Smart Voice Control.

Built-in AI voice control applied, users can easily control the AC via voice command, either with internet or without internet.

Encircled Air Supply

With encircled air supply technology, air blows toward the wall from both sides, and avoid direct blow to users in the central area of the room.

FH SERIES
FLOOR STANDING

Delicate & Powerful

Grand & Harmony Design

It is applied the design concept of gradual changes like water waves, creating a sense of rhythm, modest & reliable.

Gen Mode for Energy-saving

Highly efficient and thus cost-saving due to its gen-mode algorithm, the compressors can work across 3 electricity consumption levels. Users can switch the energy use level as they want to conserve energy, just by pressing GEN button from the remote.

60°C Strong Cooling in High Ambient Temperature

Original Invented Air-cooled Technology is applied, which can effectively cool down temperature of electric parts in outdoor unit.

3D Air Flow

Through the coanda effect louver & vanes, air can be directed both vertically and horizontally, providing experience of 3D air flow.
cooled/heated air can reach every corner of the room more effectively and efficiently.

MY SERIES
FLOOR STANDING

Most Compact of Floor Standing



Gentle Cool Wind

Through the redirection of air flow of Coanda effect, air flow is sent through the 18 vertical vanes & 1,444 micro holes for diffusion, in order to avoid direct air flow and provide shower style gentle soft wind.



Streamlined Design

Crystal Blue Crown
Covering Area: 0.124 ㎡
Hyper Silver-plated Edge



Vector Precision Air Supply

Up to 72 precise fixed angles of air supply available, providing more comfortable choices for users. Up to 7 levels of wind speed.



56°C High Temperature Self-cleaning & Sterilization

Evaporator is firstly frosted to freeze the dirt on the fins, then starts defrosting to generate a large amount of water to brush away the dirt. At last, after 56℃ high temperature quick drying and sterilization, the evaporator becomes cleaner & more sterilized.



Rapid Cooling in 30" | Rapid Heating in 60"

With TCL super turbo starting technology, the AC can reach the set temperature ASAP, and according to the test, the outlet temperature can decrease from 27° C to 18° C in about 30", in heating mode, it can increase from 20°C to 40 ℃ in 60".

FD SERIES
FLOOR STANDING

Powerful Floor Standing In the Industry





High Efficiency & Optional 3 Layer Heat Exchanger

Larger high efficiency heat exchanger is apply for strong cooling requirements. Also, 3 layer heat exchanger is optional for more ultimate powerful cooling experience.



Industrial Leading Large Capacity

Its biggest model of cooling capacity can reach 60k Btu/h, which is the largest cooling capacity of floor standing AC in the industry.



60°C Strong Cooling in High Ambient Temperature

Original Invented Air-cooled Technology
Air-cooled electric control box is applied to effectively cool down temperature of electric parts in outdoor unit.



25 Meters Long Distance Wind Blast

Equipped with powerful DC motor and large air outlet, achieve powerful airflow distance up to 25m, bringing you significant cooling experience.
It's air volume is up to 2100m³/h.



3D Air Flow

Through the coanda effect louver & vanes, air can be directed both vertically and horizontally, providing experience of 3D air flow. Cooled/heated air can reach every corner of the room more effetely and efficiently.

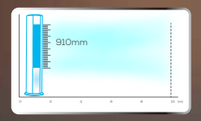


Flexible Installation

Max Connection Pipe: 25M.
Max Lifted Height: 15M.
Lengthen Spring Parts of Connection Pipe Available for Easier Bending & Installation.

MC SERIES
FLOOR STANDING

Unique & Classical



Wide Range of Air Supply

The height of the air outlet is 910mm, whose air supply can reach up to 10m, with a wider range of air flow.



Unique Grill Design

The artistic grill is inspired from vintage cars which is decorative and charismatic.



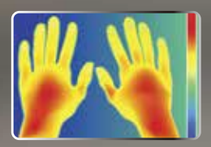
Low Noise

This noise can be as low as 22dB(Lowest)



3D Air Flow

Through the coanda effect louver & vanes, air can be directed both vertically and horizontally, providing experience of 3D air flow. Cooling/heating air can reach every corner of the room more effetely and efficiently.



I Feel

Through the built-in senor in the remote controller, the unit can monitor the room temperature in different areas of the room more accurately, providing more precise temperature for users.

RPV SERIES
PORTABLE AIR-CON

Perfect Combination of Art & Comfort



R290 Eco-friendly Refrigerant

A refrigerant with excellent heat transmission, higher efficiency, energy saving and environmental protection.



Fashionable & Concise outlook

- It is designed with polished & high gloss panel and integrated top mounted control panel.
- Various colors of panels are available for selection.



4-way Air Flow

Through the coanda effect louver & vanes, air can be directed both vertically and horizontally, providing experience of 3D air flow. Cooling/heating air can reach every corner of the room more effectively and efficiently.



Automatic Condensate Self-evaporated

No need for condensate drainage as it will be led to the condenser automatically for evaporation, which further increase the efficiency of heat exchanging.



Smart Sleep Mode

Basing on the regular body temperature curve of human' s sleep, the unit will automatically adjust the room temperature according to its initial settings and running time.

DEV SERIES
DEHUMIDIFIER

Enjoyment of Comfortable Humidity

R290 Eco-friendly Refrigerant

A refrigerant with excellent heat transmission, higher efficiency, energy saving and environmental protection.

Automatic Drainage

Built-in water pump available for automatic drainage of dehumidified water, which save users worries of draining the water tank.

Water Full Indication Display

Once the water tank is full, the indication will be displayed on the top panel, the users then can be notified timely.

Dust Prevention Designed Front Grille

Inclined downward designed grille can effectively prevent dust from falling inside the duct system.Easy to be wiped.

Easy Cleaning Filter

The filter can be easily dismantled and cleaned.

C SERIES
OUTDOOR UNIT

Always to Go Beyond Expectation



Easy Assembly & Maintenance

- Quantity of screws reduced by 10-20.
- Assembly efficiency increased by 6%-8%.
- Assembly process labor is reduced.
- Quick connector available for easy pipeline connection.
- Convenient handle for easy carrying.
- Up to 5m allowance of height difference between outdoor and indoor unit.

Highly Reliable Quality

1. Strong resistant metal plates of rust & corrosion, maintaining its excellent performance in difficult climate such as humid, coastal, etc.
2. Coated PCB with strong anti-corrosion, anti-oxidation and anti-rust.
3. Inner grooved cooper pipe of more efficient heat exchanging.
4. Bionic propeller fan with lower operation noise and higher air volume.
5. Excellent hydrophilia coated fins with less accumulation of dust, bacteria, etc.
6. Flanging processed plate metal – Protecting wiring from damage of sharp edge.
7. Heating belt is available for better anti-frosting in the bottom plate with optimized reinforcing rib layout.
8. Tougher valve protection can provide better protection for the connection valves.

















Noise Reduction

- CAE & CFD is applied for engineering analysis & computational fluid mechanics.
- Optimized air duct of less air resistance & noise.
- Optimized grid of better air flow efficiency.
- Compressor noise insulation cotton is applied to largely reduce its noise level.

NOTES

NOTES