

**TCL**

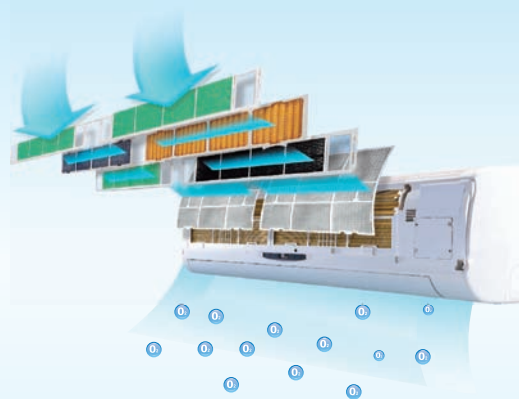


# **TCL AIR CONDITIONER**

**2012**



## High Air Flow & Functional Filters (optional)



### HAF Filter

The HAF Filter is the product of the 3M company, which absorbs particles and odors in the air.



### Catechin Filter

Deactivating bacterium, decomposing unpleasant odors.



### Active Carbon Filter

Absorbing particles and odors in the air.



### Photocatalyst Filter

Oxidizing organic compounds and some inorganic matters.

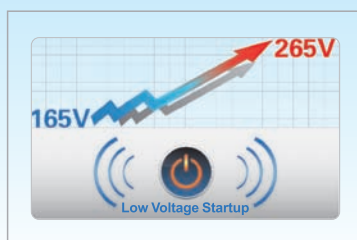


### Vitamin-enriching Filter

For a healthier living environment.

Note: Filter options available on certain models only and can be ordered as spare parts.

## Technology & Function



Designed with a wide voltage range, TCL air conditioners are able to work normally even if the voltage varies between 165~265 volts.



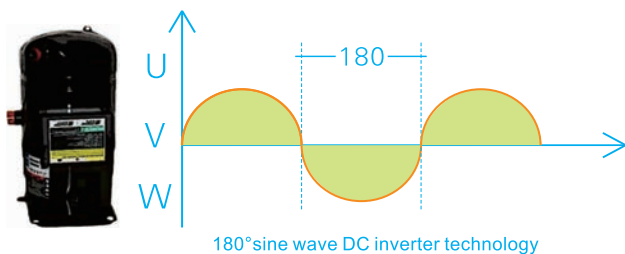
The user can determine the applicable network connection mode according to the distribution distance of terminals of air conditioners. Also, the Rs485, RS323, and other network interfaces can be applied for the automatic remote control and automatic switching.



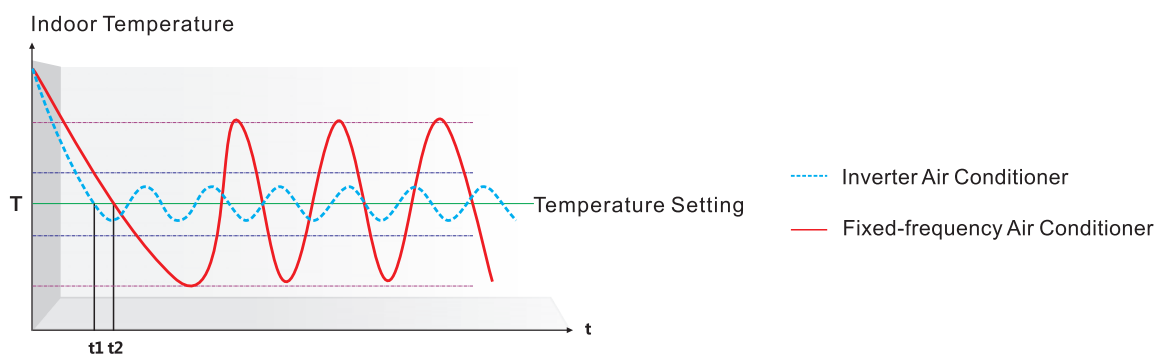
In the condition of extremely-low ambient temperature, the low temperature refrigerating module can regulate the heat exchange capacity of the outdoor unit and performance can be improved.

Note: Some functions only available on certain models.

# 180° Sine Wave DC Inverter Technology



180° sine wave DC inverter technology, higher efficiency and lower consumption, more flexible capacity control.



The inverter air conditioner has extreme strong capability so that the room can be cooled down in a relatively short time, then kept at a constant temperature for greater comfort.



## TCL Features and Benefits



### Auto-protection

The TCL Auto Protection Function displays any errors detected by the PCB on the LED screen for ease of fault diagnosis / service and the appropriate self protection function is enabled.



### Ioniser

It is intended to eliminate the static, absorb and gather tiny dust and fall them to the ground, purify the air, and deliver a balance of positive and negative ions.



### Auto Restart

In the event of power failure or accidental power cut, TCL Air conditioners are able to retain the selected settings and restore the temperature when power has been restored.



### Independent Dehumidification

The TCL Independent Dehumidification function allows you to maintain a low humidity environment, during times of high/extreme humidity.



### Timer Mode

It is equipped with the 24h/12h timing on/off function.



### Quiet Operation

TCL indoor and outdoor units have been specifically designed to reduce noise during operation by utilizing the latest state of the art motor design, Fan blade, Compressor and insulation technologies.



### High Efficient Internal Thread Copper Pipe

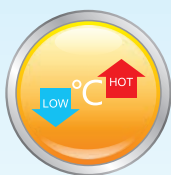
TCL incorporates trapezoidal internally threaded copper pipe into the design of its internal and external coils to provide an increased heat transfer surface area therefore achieving greater overall performance and efficiency.



### Warm start Function

When the heating mode is selected the internal fan speed is controlled according to the evaporator temperature. As the elevated temperature reaches the selected temperature, the fan will begin to prevent chilled air being expelled unnecessarily on start up.

## TCL Features and Benefits



### Strong Cooling

TCL utilize the latest state of the art motor design and Compressor technologies from highly reputable suppliers in the construction of TCL air conditioners delivering the very best value for money, performance and efficiency.



### 10-hour Auto Power Off

Power will be automatically turned off to the unit after 10 hours of operation to save on energy costs and reduce environmental impact.



### Soft-starter

The soft starter is designed to reduce start up current draw reducing energy consumption and improves overall performance and efficiency.



### Sleep Mode

When sleep mode is selected, the unit temperature will incrementally rise when in cooling or incrementally decrease when in heating prior to shutdown occurs allowing you to sleep soundly without sensing a sudden change in the environment temperature.



### Global Power Supply Design (Plug)

TCL complies with the latest regulations for globalized power supplies.



### Anti-mildew

TCL have incorporated in the design of the machine to run the internal fan for an additional 3 minutes after shutdown to allow the indoor coil to dry and eliminate residual moisture therefore minimising the opportunity for mildew to form.



### Easy-clean Panel & Filters

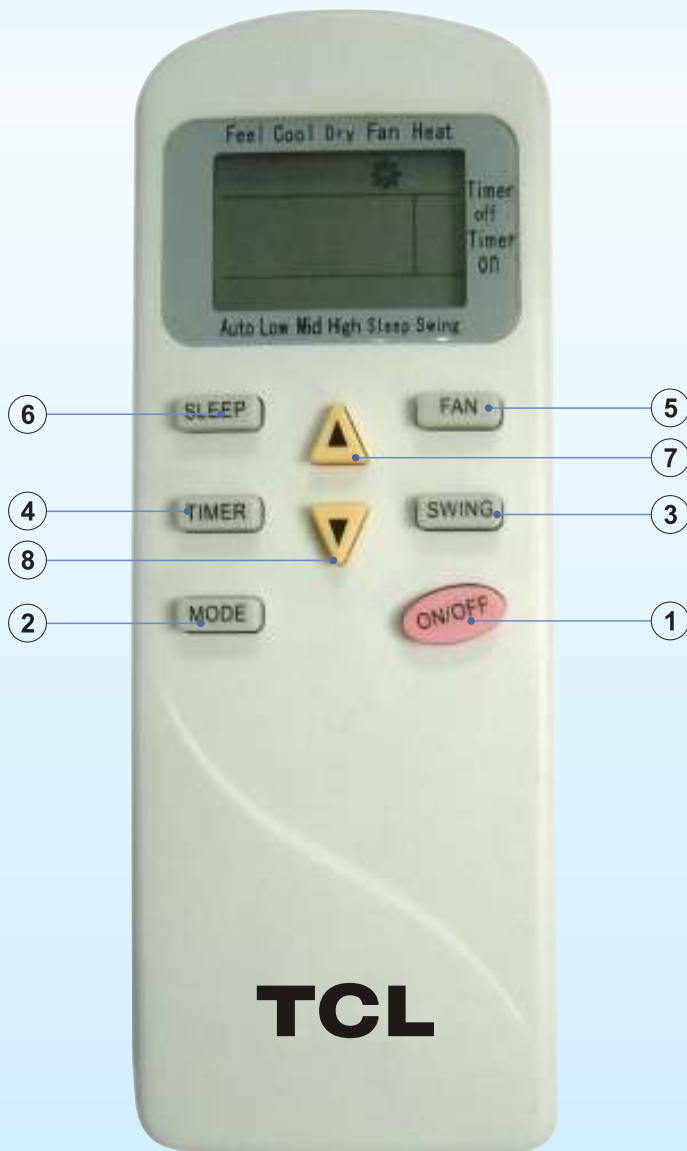
TCL have incorporated in the design of the air conditioners, an easy disassembly of the filters and facia panel assembly for ease of cleaning and reassembly, keeping the appearance and functionality and performance of your air conditioner at its optimum.



### Intelligent Defrost

When the heating mode is selected and during low external ambient temperatures, the automatic defrost function is engaged to defrost the outdoor condenser coil and automatically reverts back to heating mode to ensure optimum performance of the system in this environment.

## Remote Controller

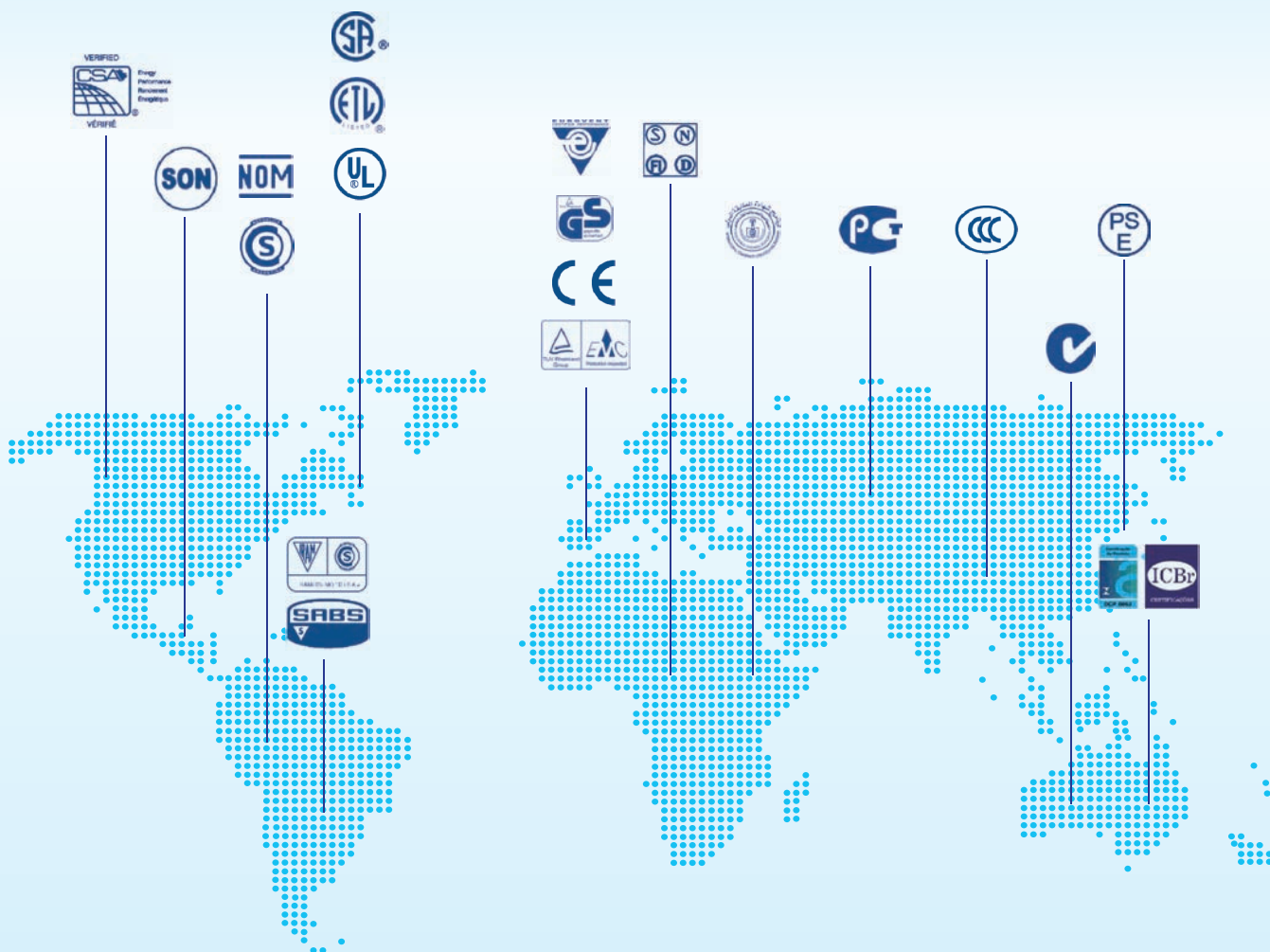


### Button Functions

- 1. ON/OFF Button**  
Start and Stop Operation of the Unit
- 2. Operation Mode Select Button**  
Change the Operation Mode: FEEL, COOL, DRY, FAN, HEAT
- 3. SWING**  
Change outlet flap to: Natural Flow, Swing or Fixed
- 4. TIMER**  
Set timer function
- 5. FAN Button**  
Set the fan speed
- 6. SLEEP**  
Turn on sleep function
- 7. ▲ (TEMP UP)**  
To raise the set temperature to the desired level
- 8. ▼ (TEMP DN)**  
To lower the set temperature to the desired level



# Global Certificates



**CB** ISO9001 ISO14001 OSHAS18001

**Fixed speed Hi-wall split**



**MEPS** 2011 Oct  
COMPLIANT  
MINIMUM ENERGY PERFORMANCE STANDARDS

Z Series





Model No.			TAC-09CHSA/Z4	TAC-12CHSA/Z4	TAC-18CHSA/Z4	TAC-24CHSA/Z4
Type			Reverse cycle			
Control type			remote			
Tested cooling capacity		kW	2.7	3.3	5.0	7.0
Tested heating capacity		kW	2.7	3.3	5.0	7.1
AEER for cooling		W/W	3.664	3.682	3.303	3.258
Energy star for cooling			2.5	2.5	2.0	2.0
ACOP for heating		W/W	3.921	3.741	3.269	3.339
Energy star for heating			3.0	2.50	2.0	2.0
Moisture removal		Litres/h	0.8	1.3	1.8	2.5
Indoor noise level at cooling	High	dB(A)	40	42	48	54
	Med.	dB(A)	38	40	46	52
	Low	dB(A)	36	38	43	50
Outdoor sound power level		dB(A)	53	56	57	59
<b>Electrical Data</b>						
Power supply			220-240V~50Hz			
Voltage Range		V	198~265			
Rated current	Cooling	A	3.4	3.9	6.7	9.5
	Heating	A	3.1	3.8	6.9	9.2
Rated input	Cooling	W	760	890	1,550	2200
	Heating	W	700	860	1,600	2100
Max Current	Cooling	A	4.9	6.1	8.7	16
	Heating	A	4.3	6.1	9.0	17
Max Power input	Cooling	W	1,080	1,150	2,010	2900
	Heating	W	1,000	1,150	2,080	3100
<b>Refrigerating System</b>						
Refrigerant	R410A	Gram	1080	1100	1400	2250
<b>Fan System</b>						
Indoor air circulation/Hi Cooling		m <sup>3</sup> /h	750/600	700/700	1100/1100	1200
Indoor fan type			Cross Flow	Cross Flow	Cross Flow	Cross Flow
Indoor fan speed H/M/L	Cooling	rpm	1270/1170/1000	1270/1170/1050	1330/1230/1150	1300/1200/1050
	Heating	rpm	1050/950/850	1250/1150/1000	1330/1230/1150	1300/1200/1050
	Fan	rpm	1000	1050	1150	1050
	Sleep	rpm	1000	1050	1150	1050
Indoor fan motor output		W	18	23	35	50
Outdoor fan type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
Outdoor fan speed		rpm	900	850	860	860
Outdoor fan motor output		W	30	45	55	76
<b>Connections</b>						
Connecting Pipe	Gas	Inches	3/8"	1/2"	1/2"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	3/8"
<b>Others</b>						
Net dimensions	Indoor	mm	898*280*200	898*280*200	1033*313*202	1240*325*250
(W x H x D)	Outdoor	mm	760*552*256	820*605*300	902*650*307	900*805*360
Net weight	Indoor	kg	11	11	14	16
	Outdoor	kg	29	42	58	69
Packing dimensions	Indoor	mm	995*365*298	995*365*298	1103*400*300	1317*422*338
(W x H x D)	Outdoor	mm	863*605*376	965*650*438	1027*705*433	1031*835*447
Gross weight	Indoor	kg	14	14	17	25
	Outdoor	kg	31	46	61	72

Inverter Hi-wall split



MEPS 2011 Oct  
COMPLIANT  
MINIMUM ENERGY PERFORMANCE STANDARDS

Z Series



Model No.			TAC-09CHSA/ZI4	TAC-12CHSA/ZI4	TAC-18CHSA/ZI4	TAC-24CHSA/ZI4
Type			Reverse cycle			
Control type			remote			
Rated cooling capacity	kW		2.5 (0.7-3.2)	3.2 (1.4-4.2)	5.0 (1.8-5.7)	7.0 (2.5-7.5)
Rated heating capacity	kW		2.4 (0.8-3.6)	3.3 (1.1-4.5)	5.2 (1.8-6.5)	7.5 (2.5-8.2)
AEER for cooling	W/W		3.762	3.760	3.290	3.300
Energy star for cooling			3.0	3.0	2.0	2.0
ACOP for heating	W/W		4.037	3.750	3.290	3.400
Energy star for heating			3.5	3.0	2.0	2.0
Moisture removal	Litres/h		0.8	1.2	2.0	2.5
Indoor sound pressure level	High	dB(A)	42	45	50	54
	Med.	dB(A)	36	38	42	45
	Low	dB(A)	30	32	34	36
Outdoor sound power level	dB(A)		52	55	56	58
<b>Electrical Data</b>						
Power supply			220-240V~/50Hz/1P			
Voltage Range	V		165~265	165~265	165~265	165~265
Rated current	Cooling	A	2.7 (0.9-4.4)	3.8 (1.2-5.9)	6.7 (2.3-9.4)	9.3 (3.1~10.7)
	Heating	A	2.7 (0.9-4.3)	3.9 (1.3-6.3)	6.9 (2.3-10.5)	9.8 (3.1~12.0)
Rated input	Cooling	W	650 (200-980)	840 (270-1300)	1480 (500-2100)	2100 (650~2400)
	Heating	W	590 (200-950)	860 (290-1400)	1540 (500-2350)	2200 (650~2700)
Max current cooling/heating	A		4.4/4.3	5.9/6.3	9.4/10.5	10.7/12.0
Max input cooling/heating	W		980/950	1300/1400	2100/2350	2400/2700
<b>Refrigerating System</b>						
Refrigerant	Gram		R410A/0.93kg	R410A/1.05kg	R410A/1.60kg	R410A/2.7kg
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		DA89X1C-20FZ3	DA108X1C-20FZ3	DA130S1C-20FZ	DA150S1C-20FZ
	MFG		GMCC	GMCC	GMCC	GMCC
<b>Fan System</b>						
Indoor air circulation Cooling/heating	m <sup>3</sup> /h		600/600	750/720	1050/1050	1450/1550
Indoor fan type			Cross Flow	Cross Flow	Cross Flow	Cross Flow
Indoor fan model			GGSDJ-08	GGSDJ-06	GGSDJ-12	GGSDJ-02
Indoor fan speed H/M/L	Cooling	rpm	1280/1110/900	1280/1110/900	1300/1150/950	1300/1200/1050
	Heating	rpm	1250/1080/900	1250/1080/900	1300/1150/950	1300/1200/1050
	Dry	rpm	900	900	950	1050
	Sleep	rpm	900	900	950	1050
Indoor fan motor output	W		18	23	35	50
Outdoor fan type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
Outdoor fan model			GZSDJ-03(DC)	GZSDJ-03(DC)	GZSDJ-09(DC)	GZSDJ-25
Outdoor fan speed	rpm		900/700/500	900/700/500	860/770	860/720
Outdoor fan motor output	W		30	30	68	105
<b>Connections</b>						
Connecting Pipe	Gas	Inches	3/8"	1/2"	1/2"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	3/8"
<b>Others</b>						
Net dimensions	Indoor	mm	800*280*185	898*280*200	1033*313*202	1240*325*250
(W x H x D)	Outdoor	mm	760*552*256	760*552*256	820*605*300	900*805*360
Net weight	Indoor	kg	8	11	13	18
	Outdoor	kg	34	34	40	56
Packing dimensions	Indoor	mm	885*366*278	995*365*298	1103*400*300	1317*422*338
(W x H x D)	Outdoor	mm	863*605*376	863*598*376	965*650*438	1031*925*447
Gross weight	Indoor	kg	10	13	16	20
	Outdoor	kg	36	37	45	59



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