



TEST REPORT

NAME OF SAMPLE:	Air Conditioner	
APPLICANT:	TCL Air Conditioner (Zhongshan) Co., Ltd.	
CLASSIFICATION OF TEST:	Commission Test	

Testing Center of TCL Air Conditioner (Zhongshan) Co., Ltd.

59 Nantou Road West, Nantou, Zhongshan, Guangdong, China Zhongshan



TEST REPORT

Report No.: PMC20250508002

ONDITIONER (ZHONGS)

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The rating and	performance	tests i	or Air-conditioner	
Applicant Name:	TCL Air Condition	er (Zhong	shan) Co., Ltd.	
Address:	59 Nantou Road V	Vest, Nan	tou, Zhongshan, Guangdo	ong, China
Manufacturer:	TCL Air Condition	er (Zhong	shan) Co., Ltd.	
Address:	59 Nantou Road V	Vest, Nan	tou, Zhongshan, Guangdo	ong, China
Factory:	Same as manufa	acturer		
Product name	Inverter Air cond	litioner		
Trademark	TCL			
Model / type reference	CW-TW24HI/V1			
Rating and characteristics	230V~ 60Hz			
Date of receipt of test item	2025-05-08 Date(s) of test 2025-05-08			
Test specification/Standard	SASO 2663:2021			
	ISO 5151:2017			
	ISO 16358-1:2013	3/Cor 1 :20	13/AMD1:2019	
To compile	李林海		查林海	
audit	林艺鸣		林艺鸣	
The director of the approval	赖福远			
Date of issue	2025-05-08			

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Report No.: PMC20250508002



The rating and performance tests for Air conditioner			
Test case verdicts	1		
Test case does not apply to the test object	N.A.		
Test item does meet the requirement	Pass		
Test item does not meet the requirement	Fail		
Procedure deviation	N.A.		
Non-standard test method	N.A.		

General remarks

The test results presented in this report relate only to the item tested.

The test report is invalid without the official stamp of TCL.

The test report is invalid without the signatures of Author and Reviewer.

Test Method

T1:Within the first 3 minutes after the indoor unit is powered on, start up and run the cooling mode, set the temperature of 30°C, medium speed wind, press the ECO or Sleep button 7 times continuously within 8 seconds, and the buzzer beeps 3 times, then set 24°C;

T1 Half capacity: Within the first 3 minutes after the indoor unit is powered on, start up and run the cooling mode, set the temperature of 30°C, medium speed wind, press the ECO or Sleep button 7 times continuously within 8 seconds, and the buzzer beeps 3 times, then set 26°C;

T3:Within the first 3 minutes after the indoor unit is powered on, start up and run the cooling mode, set the temperature of 30° C, medium speed wind, press the ECO or Sleep button 7 times continuously within 8 seconds, and the buzzer beeps 3 times, then set 28° C;

(Note: If you do not clearly hear the three short beeps of the buzzer, please power off and operate again)



Page 4 of 14

Report No.: PMC20250508002

Brief description of the tested sample(s) Ratings Rated voltage/rated voltage range (V) 230 Rated frequency (Hz) 60 Rated input (W) Cooling(T1 100%Load): 2081; (T1 50%Load): 912: Cooling (T3) :2514 Heating: 3860 Rated capacity (Btu/h) Cooling(T1 100%Load): 20600; (T1 50%Load): 10300; Cooling (T3): 17600 Heating: 3300W Rated current (A) 9.4 2 Type of power supply ☐ Three phase 3 Construction of the unit ☐ Split type Single packaged type Multi-split type 4 Type of the unit considering if it has the air ducts Spot ☐ Single-duct ☐ Double ducts The number of the indoor units if multi-split type □ Wall-mounted Type of the indoor unit if split type Free-standing Ceiling-mounted 7 Type of outdoor unit if split type ☐ Free-standing ○ Other type 9 Supplementary heating element ☐ Yes \square No 10 Operation function Cooling mode and heating mode Cooling only ☐Heating only 11 Type of the refrigerant As attach page 12 Mass of refrigerant (kg) As attach page 13 Compressor information As attach page 14 Compressor stages type Fixed capacity unit ☐ Two-stage capacity unit ■ Multi-stage capacity unit (中山 测试中心

WOITIONER (ZHONG)



Photo of nameplate:

TCL

WINDOW AIR CONDITIONER مـكـيـف هــواء نـافذة

مسيسي مسيسان					
Model مودیل		CW-TW24HI/V1			
		(T1)Cooling تبرید(تی ۱	Cooling(T3) تبرید(تی ۱۳	Heating التدفئة	
Capacity القدرة		20600Btu/h (6.03kW)	17600Btu/h (5.16kW)	3300W	
Current التيار		9.4A	11.4A	17.5A	
Rated Cur درة المقدرة	rent (I EC60335 ⁾ تيار الق	15.0A	15.0A	17.5A	
Power Inpo دخل الطاقة	70	2081W	2444W	3860W	
Rated Powe ندرة المقدة	r Input (IEC6033 ⁵⁾ مدخل الة	3250W	3250W	3950W	
EER طاقة للتبريد	معدل كفاءة الا			0.85 (W/W)	
Air Volume حجم الهواء		8	320m³/h		
Maximum a عنى للضفط	owable pressure الحد الأقد	4	4.5MPa		
Operating Pressure	Discharge ضفط الإطلاق	4	4.5MPa		
الضغط لضاغط الغاز			1.5MPa		
Noise الضجيح	الداخلي Inside الخارجي Outside	52dB(A) 62dB(A)			
Weight الوزن		46kg			
Rated Voltage/Frequency التردد/ الجهد الكهر بائي		230V~/60Hz			
Refrigeran يد / الكمية		R410	0A/0.840kg		
Ç	utdoor Unit Wate	er Proof Prote	ection IPX4		

Outdoor Unit Water Proof Protection IPX4 درجة الحماية من الماء لمكيف الهواء الخارجي؛ Xأي بي

سركة محدودة تكييف الهواء TCL(تشونغشان)

رقم ٥٩ ، غرب شارع ناتئو ، ناتئو ، مدينة تشونغشان (الرقم البريدي: ٧٨٤٢٧)، مقاطعة قوانغدونغ ، الصين

Serial number: الرقم السلسل

Made in China صنع في الصين



TCL

Photo of the tested sample:







Photo of compressor:





Report No.: PMC20250508002



1- Sample Information

ONDITIONER (ZHONGSHE

1- Sample Information				
Brand	TCL			
	System (if application)	CW-TW24HI/V1		
Model No.	Indoor (split system on	(y) /		
	Outdoor (split syste	em /		
	only)			
Serial number	Indoor:	Outdoor:		
Air-Conditioner Type	Window air conditioner	G440W0200100G3400016		
Air Distribution	Two way (Up-down)			
Type of system	, , , ,	ss of Refrigerant (kg) 0.840		
Heat transfer	Heating&Cooling	ss of Reffigerant (kg)		
	230			
Voltage(V) Phase	1ph			
Hz	60			
П		Variable capacity unit		
	Type Brand	Variable capacity unit GMCC		
Compressor	Model Name	KTM225D63TEZA2		
Complessor	Maker	GMCC ELECTROMECHANICAL		
	Wakei	(ZHEJIANG) CO., LTD		
	Country of Origin	China		
	Туре	DC motor		
Fan mateu 4	Brand	Welling		
Fan motor 1	Model	ZKFP-30-8-309)		
	Maker	Guangdong Welling Motor Manufacturi		
		Co., Ltd		
	Country of Origin	China		
	Туре	DC motor		
	Brand	Welling		
Fan motor 2	Model	ZKFP-45-8-111		
	Maker	Guangdong Welling Motor Manufacturing		
	Country of Origin	China		
Evaporator	Volume(mm)	550mm x 302mm x 25.4 mm		
	Туре	Hydrophilic & Louver Fin; Innergroover tube type		
Condenser	Volume(mm)	560mm x 303 mm x 36.4 mm		
233333	Type	Louver or Corrugated Fin; Innergroover tube type		
Refrigerant	Type: R410A	840g		
	Indoor(mm)	\ \ \		
Dimensions	1)Outdoor(mm)	Width: 920 Depth: 380 Height: 699		
(2)		1 3 1 3 1 1 3		



2- Test report

2.1 Cooling capacity test (T1 100% Load)

Data to be recorded for Enthalpy cooling capacity tests

Test Duration(min)	90
Power supplied	230V~60HZ
Applied voltage (V)	230.1
Frequency (Hz)	60
Current (A)	9.66
Power Consumption (W)	2088
Power factor	94.8%
Fan speed settings	High speed
Dry bulb temperature, indoor ($^{\circ}$ C)	27.01
Wet bulb temperature, indoor ($^{\circ}\!\mathbb{C}$)	19.00
Dry bulb temperature, outdoor ($^{\circ}\!\mathbb{C}$)	35.03
Wet bulb temperature, outdoor ($^{\circ}$ C)	24.01
Barometer (KPa)	100.75
Indoor cooling capacity (Btu/h)	20650
Sensible cooling capacity (Btu/h)	18143
Latent cooling capacity (dehumidifying capacity) (Btu/h)	2507
Air-static pressure difference across separating partition of calorimeter compartments (Pa)	251
Volume flow rate of air(m3/hr)	820
Cooling capacity (Btu/h)	20650
EER(Btu/h)/W	9.890





Page 10 of 14

Report No.: PMC20250508002

2.2 Cooling capacity test (T1 50% Load)

Data to be recorded for Enthalpy cooling capacity tests

Test Duration(min)	90
Power supplied	230V~60HZ
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	4.26
Power Consumption (W)	921
Power factor	94.0%
Fan speed settings	High speed
Dry bulb temperature, indoor ($^{\circ}$ C)	27.01
Wet bulb temperature, indoor (${}^{\circ}\!\mathbb{C}$)	19.00
Dry bulb temperature, outdoor ($^{\circ}$ C)	35.03
Wet bulb temperature, outdoor ($^{\circ}$ C)	24.01
Barometer (KPa)	100.75
Indoor cooling capacity (Btu/h)	10360
Sensible cooling capacity (Btu/h)	9600
Latent cooling capacity (dehumidifying capacity) (Btu/h)	760
Air-static pressure difference across separating partition of calorimeter compartments (Pa)	251
Volume flow rate of air(m3/hr)	820
Cooling capacity (Btu/h)	10360
EER(Btu/h)/W	11.249



Page 11 of 14

2.3 Test record of cooling capacity test (T3)

Test Duration(min)	90
Power supplied	230V~60HZ
Applied voltage (V)	230.1
Frequency (Hz)	60
Current (A)	11.64
Power Consumption (W)	2518
Power factor	94.1%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	29.01
Wet bulb temperature, indoor (${}^{\circ}\!\mathbb{C}$)	19.02
Dry bulb temperature, outdoor (°C)	46.00
Wet bulb temperature, outdoor (${\mathbb C}$)	24.02
Barometer (KPa)	100.82
Indoor cooling capacity (Btu/h)	17680
Sensible cooling capacity (Btu/h)	16726
Latent cooling capacity (dehumidifying capacity)	954
Air-static pressure difference across separating partition of calorimeter compartments (Pa)	264
Volume flow rate of air(m3/hr)	821
Cooling capacity (Btu/h)	17680
EER(Btu/h)/W	7.021





Page 12 of 14

Report No.: PMC20250508002

2.4 Test record of heating capacity test (H1)

Test Duration(min)	90
Power supplied	230V~1 Phase/ 60Hz
Applied voltage (V)	230
Frequency (Hz)	60
Current (A)	17.26
Power Consumption (W)	3850
Power factor	97.0%
Fan speed settings	High speed
Dry bulb temperature, indoor (°C)	20.02
Wet bulb temperature, indoor (°C)	15.01
Dry bulb temperature, outdoor (°C)	7.01
Wet bulb temperature, outdoor (°C)	6.00
Barometer (Pa)	100.80
Indoor heating capacity (W)	3310
Sensible heating g capacity (W)	3310
Latent heating capacity (dehumidifying capacity) (W)	/
Static pressure(Pa)	308
Volume flow rate of air(m3/hr)	753
heating capacity W	3310
COP W/W	0.86





Page 13 of 14 Report No.: PMC20250508002

2.5 Functional Performance – Cooling

Operability at Maximum cooling conditions at		Result:	□ Pass
T3 conditions	□ Declared		☐ Fail
Minimum cooling at T3 conditions			□ Pass
·	☐ Declared		☐ Fail
Freeze-up drip at T3 conditions (non-ducted	□ Tested		□ Pass
AC)	☐ Declared		☐ Fail
Condensate control and enclosure sweat			□ Pass
performance	☐ Declared		☐ Fail
Operability at 52 ℃			elevant
	☐ Declared		
Operability at minimum cooling conditions			elevant
	☐ Declared		
Freeze up air blockage			elevant
	☐ Declared		
Freeze-up drip			elevant
	☐ Declared		
Condensate control			elevant
	☐ Declared		
Enclosure sweat performances			elevant
	Declared		

2.6 Capacity tests at below condition were considered in this report.

Mode	Indoor air temperatu	re	Outdoor a		Test voltage
	Dry bulb	Wet bulb	Dry bulb	Wet bulb	3
Cooling mode (T1 Full load)	27	19	35	24	230V, 60Hz
Cooling mode (T1 Half load)	27	19	35	24	230V, 60Hz
Cooling mode (T3)	29	19	46	24	230V, 60Hz
Heating mode (H1)	20	15	7	6	230V, 60Hz





3-Conclusion

Mode	Rated	Tested	Verifyin	Required value	Verdict
			g		
Cooling capacity, Btu/h	20600	20650	0.24%	>=19570	Pass
Cooling power input, W	2081	2088	0.34%	<=2185	Pass
EER, Btu/W ·h	9.90	9.890	-0.09%	>=9.80	Pass
<u> </u>	Cooling ca	apacity test	(for condition	T1 50% Load)	1
Cooling capacity, Btu/h	10300	10360	0.58%	>=9785	Pass
Cooling power input, W	912	921	0.99%	<=958	Pass
EER, Btu/W ·h	11.29	11.249	-0.40%	>=10.73	Pass
	Cooling ca	apacity test	(for condition	T3)	
Cooling capacity, Btu/h	17600	17680	0.45%	>=16720	Pass
Cooling power input, W	2444	2518	0.16%	<=2640	Pass
EER, Btu/W ·h	7.20	7.021	0.29%	>=7.00	Pass
]	Heating capac	city		
Heating capacity, W	3300	3310	0.3%	>=3135	Pass
Heating power input,	3860	3850	-0.3%	<=4053	Pass
COP, WW	0.85	0.86	1.3%	>=0.81	Pass
Annual Energy Consur	mption(AEC)				
(kWh)				6771	
SEER		10.35			
SEER class		D			

* Verifying limit for test T1

Cooling capacity ≥ 0.95 × rated capacity

Cooling power input ≤ 1.05× rated

Heating capacity ≥ 0.95 × rated capacity

Heating power input ≤ 1.05× rated

EER ≥ 0.95 × rated

COP ≥ 0.95 × rated

