

Page **1** of **17**

Nº: PMC20250305001

TEST REPORT

NAMEOF 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)

Page 2 of 17 Report No.: PMC20250305001

TEST REPORT The rating and performance tests for Air-conditioner Applicant Name: TCL Air Conditioner (Zhongshan) Co., Ltd. Address: 59 Nantou Road West, Nantou, Zhongshan, Guangdong, China TCL Air Conditioner (Zhongshan) Co., Ltd. Manufacturer: 59 Nantou Road West, Nantou, Zhongshan, Guangdong, China Address: Factory: Same as applicant Product name Air conditioner Trademark **TCL** TAC-24COSAI/XA31T Model / type reference 220-240V~,50/60Hz Rating and characteristics. Date of receipt of test item 2025-03-05 Date(s) of test 2025-03-05 Test specification/Standard SASO 2663/2021 SASO GSO ISO 5151: 2017 ISO 16358-1:2013/Cor 1:2013/AMD1:2019 To compile 李林海 audit 林艺鸣 The director of the approval 赖福远 Date of issue..... 2025-03-06

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测试中心 TEST CENTER

VOITIONER (ZHONGS

Page 3 of 17 Report No.: PMC20250305001

The rating and performance tests for Air conditioner		
Test case verdicts		
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	N.A.	
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.

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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 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;

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 27° C;

T1 minimum 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 31°C;

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

TEST CENTER

VOITIONER (ZHONGS)

Brief	Brief description of the tested sample(s)		
1	Ratings		
	Rated voltage/rated voltage range (V)	220-240	
	Rated frequency (Hz)	50/60	
	Rated input (W)	Cooling(T1- Full load capacity):1875	
		Cooling (T1- Half load capacity): 653	
		Cooling (T3) : 2298	
		Cooling (T1- Minimum load capacity) : 367	
		Heating:/	
	Rated capacity (Btu/h)	Cooling (T1- Full load capacity) : 22500	
		Cooling (T1- Half load capacity): 10700	
		Cooling (T3) : 20800	
		Cooling (T1- Minimum load capacity) : 6200	
		Heating:/	
	Rated current (A)		
2	Type of power supply	⊠ Single phase	
		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	
	(A/C Configuration— Air Distribution)	Single-duct	
		☐ Double ducts	
_			
5	The number of the indoor units if multi-split type		
6	Type of the indoor unit if split type		
		Free-standing	
		Ceiling-mounted	
7	Type of outdoor unit if split type	☐ Other type ☐ Free-standing	
'	Type of outdoor unit if split type	Other type	
9	Supplementary heating element	Yes	
J	Supplementary reating element	⊠ 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	
		-	
		□Multi-stage capacity noit 測器 (中山) 有像	
		⊠Variable capacity unit 测试中心	
		TEST CENTER	
<u> </u>		PEONOTIONER (ZHONGSHAMP)	

Photo of nameplate:

TCL

SPLIT AIR CONDITIONER INDOOR UNIT

مكيـف هــواء سبليـت وحــدة داخليـة

Model مودیل		TAC-24COSAI/XA31T		
		Cooling(T1) تبرید(تی ۱)	Cooling(T3) تبرید(تی ۳)	
Capacity القدرة		22500(4094~24908)Btu/h (6.60(1.20~7.30)kW)	20800(4436~22178)Btu/h (6.09(1.30~6.50)kW)	
Current التيار		8.5A (1.2~13.0)	10.4A (1.2~13.0)	
Rated Curr درة المقدرة	rent (IEC60335) تيار الق	13.0A	13.0A	
Power Inpu دخل الطاقة		1875W (280~2900)	2298W (280~2900)	
Rated Powe درة المقدرة	r Input (IEC60335) مدخل الق	2900W	2900W	
EER طاقة للتبريد	معدل كفاءة ال	12.00 (Btu/h/W)	9.05 (Btu/h/W)	
Indoor Air دفق الهواء		1450m³/h		
Maximum a مى للضغط	owable pressure الحد الأقد	4.5MPa		
Operating Pressure	Discharge ضفط الإطلاق	4.5MPa		
Suction الضفط ضفط الاستنشاق لضاغط الفاز		1.9MPa		
Noise الضجيج		52dB(A)		
Weight الوزن		16kg		
Rated Voltage/Frequency التردد/ الجهد الكهر بائي		220-240V~/50/60hz		

Serial number: الرقم السلسل

Made in China صنع في الحين

TCL

SPLIT AIR CONDITIONER OUTDOOR UNIT

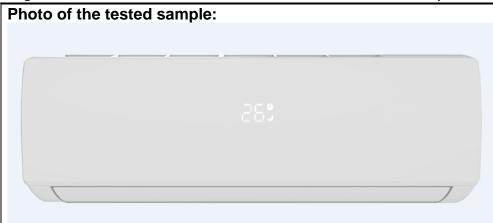
مكييف هيواء سبلييت وحيدة خارجيية

TAC-24COSAI/XA31T				
Cooling(T1) تېرېد(تىي ۱)	Cooling(T3) تبرید(تی ۳)			
22500(4094~24908)Btu/h (6.60(1.20~7.30)kW)	20800(4436~22178)Btu/h (6.09(1.30~6.50)kW)			
8.5A (1.2~13.0)	10.4A (1.2~13.0)			
13.0A	13.0A			
1875W (280~2900)	2298W (280~2900)			
2900W	2900W			
12.00 (Btu/h/W)	9.05 (Btu/h/W)			
4.5MPa				
4.5MPa				
1.9MPa				
60dB(A)				
37kg				
220-240V~/50/60hz				
R410A/1.100kg				
Outdoor Unit Water Proof Protection IPX4 درجة الحماية من الماء لمكيف الهواء الخارجي IPX4				
	Cooling(T1) (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (

Serial number: الرقم السلسل

Made in China صنع في الحين









Page 7 of 17 Report No.: PMC20250305001





Summary

Canimary		
Test method		Enthalpy test room
	Total cooling capacity in Btu/h	23812
COOLING CAPACITY(T1-Full load capacity)	Air conditioner power consumption in W	1826
	Energy Efficiency Ratio(EER) in Btu/h/w	13.04
	Total cooling capacity in W	11420
COOLING CAPACITY(T1- Half load capacity)	Air conditioner power consumption in W	639
	Energy Efficiency Ratio(EER)	17.87
	Total cooling capacity in Btu/h	21496
COOLING CAPACITY(T3)	Air conditioner power consumption in W	2434
	Energy Efficiency Ratio(EER) in Btu/h/w	9.57
	Total cooling capacity in W	6616
COOLING CAPACITY(T1- Minimum load capacity)	Air conditioner power consumption in W	359
	Energy Efficiency Ratio(EER) in Btu/h/w	18.43
	Total cooling capacity in w	/
HEATING CAPACITY	Air conditioner power consumption in W	/
	Energy Efficiency Ratio(COP) in w/w	/

Test	Result	
16.31	1762011	

Pass

☐ Fail

Note: If failed, it shall be indicated which part it was fail in.



Page 9 of 17 Report No.: PMC20250305001

1- Sample Information

1- Sample Information Brand	TCL				
	System (if applicat	ion)	KT3F-58GW/YXABp(E/6)(080944)		6)(080944)
Model No.	Indoor (split system only)		/		
-		system	/		
	only)				
Serial number	Indoor:		C	Outdoor:	
At a O and little and Total	G440N02001N1241	21301	0	<u>3440W02001N1</u>	24121302
Air-Conditioner Type	Split air conditioner				
Air Distribution	Four way	Τ.,	<u> </u>		4.40
Type of system	R410A	Mass o	of Refrige	rant (kg)	1.10
Heat transfer	Cooling only				
Voltage(V)	220-240				
Phase	1ph				
Hz	50/60				
	Type			motor-compr	essor
_	Brand		Sanyo		
Compressor	Model Name		C-6RZ180)H3BAF	
	Maker	Maker AVIC ELECTROMECHANICAL(SHENYAI			
	O REFRIGERATION EQUIPMENT CO.,LTD.				
	Country of Origin	C	China		
	Type DC motor Brand WELLING				
la da a a Fananatan					
Indoor Fan motor	Model	Z	KFP-45-	8-184L	
	Maker	_	GUANGDONG WELLING MOTOF MANUFACTURING CO.,LTD.		
	Country of Origin	C	China		
	Туре	С	C motor		
	Brand	V	Volong		
Outdoor Fan motor	Model	V	VZD-A02	085L-01TL	
	Maker	V	Volong E	lectric (Ji nan) M	lotor Co.,Ltd.
	Country of Origin		China		
Evaporator	Volume(mm)	8	896mm x 399mm x 25.4 mm		
	Туре		lydrophili ype	c & Louver Fin;	Innergroover tube
Condenser	Volume(mm)	8	858 mm x 663 mm x 23.2 mm		
	Туре		ouver oube type	r Corrugated F	in; Innergroover
Refrigerant	Type: R410A	1	100g		
Dimensions	Indoor(mm)	V	Vidth:119	1 Depth :360	Height :258



2- Test report

2.1 Cooling capacity test (T1-Full load capacity)

Data to be recorded for Enthalpy cooling capacity tests

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	229.0
Frequency (Hz)	60
Current (A)	8.337
Power Consumption (W)	1826
Power factor	95.7%
Fan speed settings	High speed
Dry bulb temperature, indoor ($^{\circ}$ C)	26.99
Wet bulb temperature, indoor (${}^{\circ}\!\mathbb{C}$)	19.01
Dry bulb temperature, outdoor (°C)	34.99
Wet bulb temperature, outdoor ($^{\circ}$ C)	24.00
Barometer (Pa)	102.27
Indoor cooling capacity (Btu/h)	23812
Sensible cooling capacity(Btu/h)	22502
Latent cooling capacity (dehumidifying capacity) (Btu/h)	1310
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1809.1
Cooling capacity (Btu/h)	23812
EER(Btu/h)/W	13.04



2.2 Cooling capacity test (T1-Half load capacity)

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	229.5
Frequency (Hz)	60
Current (A)	4.254
Power Consumption (W)	639
Power factor	65.5%
Fan speed settings	High speed
Dry bulb temperature, indoor (°C)	27.00
Wet bulb temperature, indoor (${}^{\circ}\!$	19.00
Dry bulb temperature, outdoor (℃)	35.02
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	102.41
Indoor cooling capacity (Btu/h)	11420
Sensible cooling capacity (Btu/h)	11079
Latent cooling capacity (dehumidifying capacity) (W)	341
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1604.1
Cooling capacity (Btu/h)	11420
EER(Btu/h)/W	17.87



2.3 Test record of cooling capacity test (T3)

2.3 lest record of cooling capacity test (13)	
Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	229.9
Frequency (Hz)	60
Current (A)	10.09
Power Consumption (W)	2247
Power factor	96.9%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	28.98
Wet bulb temperature, indoor (°C)	18.98
Dry bulb temperature, outdoor (℃)	45.98
Wet bulb temperature, outdoor (°C)	23.99
Barometer (Pa)	102.41
Indoor cooling capacity (Btu/h)	21496
Sensible cooling capacity(Btu/h)	21407
Latent cooling capacity (dehumidifying capacity) (Btu/h)	89
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1806.4
Cooling capacity (Btu/h)	21496
EER(Btu/h)/W	9.57



2.4 Test record of cooling capacity test (T1- Minimum load capacity)

2.4 lest record or cooling capacity test (11- will ill fluid	rioda oapaoity)
Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	229.9
Frequency (Hz)	60
Current (A)	2.641
Power Consumption (W)	359
Power factor	59.1%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	26.99
Wet bulb temperature, indoor (°C)	18.99
Dry bulb temperature, outdoor (°C)	35.00
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	102.22
Indoor cooling capacity (Btu/h)	1939
Sensible cooling capacity(Btu/h)	1880
Latent cooling capacity (dehumidifying capacity) (Btu/h)	59
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1074.2
Cooling capacity (Btu/h)	6616
EER(Btu/h)/W	18.43



2.5 Test record of heating capacity test (H1)

-	
Test Duration(min)	/
Power supplied	/
Applied voltage (V)	/
Frequency (Hz)	/
Current (A)	/
Power Consumption (W)	/
Power factor	/
Fan speed settings	/
Dry bulb temperature, indoor (℃)	/
Wet bulb temperature, indoor ($^{\circ}$ C)	/
Dry bulb temperature, outdoor (℃)	/
Wet bulb temperature, outdoor (℃)	/
Barometer (Pa)	/
Indoor heating capacity (W)	/
Sensible heating g capacity (W)	/
Latent heating capacity (dehumidifying capacity) (W)	/
Static pressure(Pa)	/
Volume flow rate of air(m3/hr)	/
heating capacity W	/
heating capacity (Btu/h)	/
COP (Btu/h)/W	/



2.5 Functional Performance – Cooling& Heating

Operability at Maximum cooling conditions at $52^{\circ}\mathbb{C}$	Tested Declared	Result:	Pass Fail Non Relevant
Operability at Minimum cooling conditions	Tested Declared		Pass Fail Non Relevant
Freeze up air blockage and freeze-up drip	Tested Declared		Pass Fail Non Relevant
Condensate control and enclosure sweat performance	Tested Declared		Pass Fail Non Relevant
Operability at Maximum heating conditions	Tested Declared		Pass Fail Non Relevant
Operability at Minimum heating conditions	Tested Declared		Pass Fail Non Relevant
Verification of automatic defrost	Tested Declared		Pass Fail Non Relevant

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

Mode	Indoor air temperature		Outdoor air temperature		Test voltage
	Dry bulb	Wet bulb	Dry bulb	Wet bulb	C
Cooling mode (T1-Full load capacity)	27	19	35	24	230V, 60Hz
Cooling mode (T1-Half load capacity)	27	19	35	24	230V, 60Hz
Cooling mode (T3)	29	19	46	24	230V, 60Hz
Cooling mode (T1-Minimum load capacity)	27	19	35	24	230V, 60Hz



Conclusion

Cooling	capacity test	t (for conditi	on T1- Full lo	oad capacity)	
Mode	Rated	Tested	Verifyi	Required	Verdict
			ng	EER	
Cooling capacity, Btu/h	22500	23812	5.83%	>=21375	Pass
Cooling power input, W	1875	1826	-2.61%	<=1969	Pass
EER, Btu/W ⋅h	12.00	13.04	8.67%	>=11.80	Pass
Cooling	capacity test	(for condition	on T1- Half lo	oad capacity)	
Cooling capacity, Btu/h	10700	11420	6.73%	>=10165	Pass
Cooling power input, W	653	639	-2.14%	<=686	Pass
EER, Btu/W ·h	16.39	17.87	9.03%	>=15.57	Pass
	Cooling c	apacity test	(for conditio	n T3)	
Cooling capacity, Btu/h	20800	21496	3.35%	>=19760	Pass
Cooling power input, W	2298	2247	-2.22%	<=2413	Pass
EER, Btu/W ⋅h	9.05	9.57	5.75%	>=8. 30	Pass
Cooling ca	pacity test (fo	or condition	T1- Minimun	n load capacity)	
Cooling capacity, Btu/h	6200	6616	6.71%	>=5890	Pass
Cooling power input, W	367	359	-2.18%	<=385	Pass
EER, Btu/W ⋅h	16.89	18.43	9.12%	>=16.05	Pass
1		Heating capa	acity		T
Heating capacity, W	1	1	1	1	1
Heating power input,	1	1	1	1	1
COP, WW	1	1	1	1	1
CSEC (Kwh/Y):				5504	
Energy class: (base on	rated EER			D	
at T1)					
SEER class				В	
SEER				15.00	



Page 17 of 17 Report No.: PMC20250305001

a) Tested power at full load operation at (T1 and T3) $\cdots \sim ... \leq 1.05$ x rated power at full load operation at (T1 and T3).

- b) Tested power at half load operation at (T1) $\cdots \sim ... \leq 1.05 \text{ x}$ rated power at half load operation at (T1).
- d) Tested cooling capacity at full load operation at (T1 and T3) $\cdots \sim ... \geq 0.95$ x rated cooling capacity at full load operation at (T1 and T3).
- e) Tested cooling capacity at half load operation at (T1) $\cdots \sim ... \geq 0.95$ x rated cooling capacity at half load operation at (T1).
- f) Tested cooling capacity at minimum load operation at (T1) $\cdots \sim ... \geq 0.95$ x rated cooling capacity at minimum load operation at (T1).
- g) Tested EER at full load operation at (T1 and T3) $\cdots > MEPS$ and ≥ 0.95 x rated EER at full load operation (T1 and T3).
- h) Tested power at (H1) $\cdots \le 1.05 x$ rated power at (H1).
- i) Tested heating capacity at (H1) \geq 0.95 x rated heating capacity at (H1).
- j) Tested COP ····· ≥ 0.95 x rated COP.
- k) Rated COP (Electrical Resistance) ······ 1.0 (W/W).
- I) Tested voltage (refer to the standard mentioned in Clause 2).
- m) Tested Frequency 60 Hz ±2%.

Nergy Rating Classification

Table 6 – Seasonal Energy Efficiency Ratio (SEER) Classification				
Bar color	Energy class		SEER limits (Btu/W.h)	
Dark green	1	А	SEER ≥ 18.0	
Green	ب	В	18.0> SEER ≥ 15.0	
Light green	E	С	15.0> SEER ≥ 12.5	
Yellow	7	D	12.5> SEER ≥ 10.0	
Orange	هـ	E	10.0> SEER ≥ 9.0	
Red	و	F	9.0> SEER ≥ 8.0	
Dark Red	j	G	8.0> SEER	

