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(中山)

Nº: PMC20250204001

TEST REPORT

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

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

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

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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-24CHSAI/XA21T Model / type reference 220-240V~,50/60Hz Rating and characteristics. Date of receipt of test item 2025-02-04 Date(s) of test 2025-02-04 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..... 2025-02-05

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测试中心 TEST CENTER

CONDITIONER (ZHONGS

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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	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.

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 25° 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 26°C;

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 27° C;

Heat: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 change the heating mode and set 20°C;

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

TEST CENTER

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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) : 1750
		Cooling (T1- Half load capacity): 605
		Cooling (T3) : 2294
		Cooling (T1- Minimum load capacity) : 329
		Heating: 1829
	Rated capacity (Btu/h)	Cooling (T1- Full load capacity) : 21000
		Cooling (T1- Half load capacity): 10000
		Cooling (T3) : 20300
		Cooling (T1- Minimum load capacity) : 5600
		Heating: 6400W
	Rated current (A)	1
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
_		Other type
7	Type of outdoor unit if split type	
		☐ Other type
9	Supplementary heating element	☐ Yes
40	On a reticus from eticus	No
10	Operation function	⊠Cooling mode and heating mode
		Cooling only
44	Type of the refrigerent	Heating only
11 12	Type of the refrigerant	As attach page
	Mass of refrigerant (kg)	As attach page
13	Compressor information	As attach page
14	Compressor stages type	Fixed capacity unit
		☐Two-stage capacity unit
		□Two-stage capacity unit (中山) 有限 (中山) 有阳) (中山) 有阳) (中山) 有阳 (中山) 有阳) (中山) 有阳 (中山) 有阳 (中山) 有阳 (中山) 有阳
		☑Variable capacity unit 测试中心 测试中心
		TEST CENTER
<u>u</u>		**CONDITIONER (ZHONGSHANY)

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Photo of nameplate:

TCL

SPLIT AIR CONDITIONER INDOOR UNIT

مكـيـف هــواء سبليـت وحــدة داخليـة

Model				
مودیل		TAC-24CHSAI/XA21T		
		Cooling(T1) تبرید(تی ۱)	Cooling(T3) تبرید(تي ۳)	Heating التدفئة
Capacity القدرة		21000(5118~24566)Btu/h (6.15(1.50~7.20)kW)	20300 (5118~24566)Btu/h (5.94 (1.50~7.20)kW)	6400W (1500~7600
Current التيار		10.8A (1.6~14.0)	10.4A (1.6~14.0)	8.3A (1.6~14.0)
Rated Curr درة المقدرة	ent (IEC60335) تيار الق	14.0A	14.0A	14.0A
Power Inpu دخل الطاقة	۵	1750W (200~3250)	2294W (200~3250)	1829W (200~2600)
Rated Power Input (IEC60335) محخل القدرة المقدة		3250W	3250W	2600W
EER/COP للتبريد/الحرارة	معدل كفاءة الطاقة	12.00 (Btu/h/W)	8.85 (Btu/h/W)	3.50 (W/W)
Indoor Air Volume حجم تدفق الهواء		1450m³/h		
Maximum a عى للضغط	llowable pressure الحد الأقر	4.5MPa		
Operating Pressure	Discharge ضغط الإطلاق	4.5MPa		
	Suction ضغط الاستنشاق	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 الصين

TCL

SPLIT AIR CONDITIONER OUTDOOR UNIT

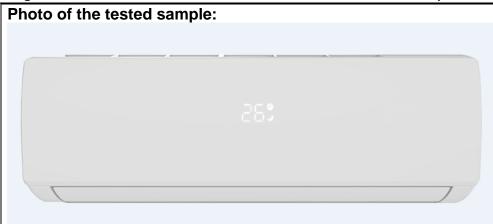
مكـيـف هــواء سبليـت وحــدة خارجيــة

Model مودیل		TAC-24CHSAI/XA21T			
		Cooling(T1) تبرید(تی ۱)	Cooling(T3) تبرید(تي ۳)	Heating التدفئة	
Capacity القدرة		21000(5118~24566)Btu/h (6.15(1.50~7.20)kW)	20300(5118~24566)Btu/h (5.94(1.50~7.20)kW)	6400W (1500~7600)	
Current التيار		10.8A (1.6~14.0)	10.4A (1.6~14.0)	8.3A (1.6~14.0)	
Rated Curi درة المقدرة	rent (IEC60335) تيار الق	14.0A	14.0A	14.0A	
Power Inpu دخل الطاقة		1750W (200~3250)	2294W (200~3250)	1829W (200~2600)	
Rated Powe	r Input (IEC60335) مدخل الڌ	3250W	3250W	2600W	
EER/COP للتبريد/الحرارة	EER/COP معدل كفاءة الطاقة للتبريد/الحرارة		8.85 (Btu/h/W)	3.50 (W/W)	
	Maximum allowable pressure الحد الأقصى للضغط		4.5MPa		
Operating Pressure	Discharge ضغط الإطلاق	4.5MPa			
الضغط لضاغط الغاز	Suction ضغط الاستنشاق	1.9MPa			
Noise الضجيج		62dB(A)			
Weight الوزن		38.5kg			
Rated Voltage/Frequency التردد/ الجهد الكهر بائي		220-240V,50/60Hz			
Refrigerant/Charge غاز التبريد / الكمية		R410A/1.470kg			
Outdoor Unit Water Proof Protection IPX4 درجة الحماية من الماء لمكيف الهواء الخارجي؛ Xآبي بي					

Serial number: الرقم السلسل

Made in China صنع في الصين









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Summary

Test method		Enthalpy test room
	Total cooling capacity in Btu/h	21492
COOLING CAPACITY(T1-Full load capacity)	Air conditioner power consumption in W	1707
	Energy Efficiency Ratio(EER) in Btu/h/w	12.59
	Total cooling capacity in W	10751
COOLING CAPACITY(T1- Half load capacity)	Air conditioner power consumption in W	591
	Energy Efficiency Ratio(EER)	18.19
	Total cooling capacity in Btu/h	20885
COOLING CAPACITY(T3)	Air conditioner power consumption in W	2234
	Energy Efficiency Ratio(EER) in Btu/h/w	9.35
	Total cooling capacity in Btu/h	5988
COOLING CAPACITY(T1- Minimum load capacity)	Air conditioner power consumption in W	322
	Energy Efficiency Ratio(EER) in Btu/h/w	18.60
	Total cooling capacity in w	6710
HEATING CAPACITY	Air conditioner power consumption in W	1789
	Energy Efficiency Ratio(COP) in w/w	3.75

Test Result:	
⊠ Pass	□ Fail
Note: If failed, it shall be indicated which part it was fail in.	衣调器 (中山) 有學一·

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1- Sample Information

1- Sample Information Brand	TCL		
	System (if application) KT3FR-57GW/YXABp(E/6)(0832		
Model No.	Indoor (split system on		
cac.	Outdoor (split syste		
Serial number	Indoor:	Outdoor:	
	G440N020012002011001	1 G440W020012002011002	
Air-Conditioner Type	Split air conditioner		
Air Distribution	Four way		
Type of system		ss of Refrigerant (kg) 1.47	
Heat transfer	Cooling only and heat pu	mp type	
Voltage(V)	220-240		
Phase	1ph		
Hz	50/60		
	Туре	Hermetic motor-compressor	
	Brand	Sanyo	
Compressor	Model Name	C-6RZ180H3BAF	
	Maker	AVIC ELECTROMECHANICAL(SHENYANG)SANY O REFRIGERATION EQUIPMENT CO.,LTD.	
	Country of Origin China		
	Туре	DC motor	
	Brand	WELLING	
Indoor Fan motor	Model	ZKFP-45-8-184L	
	Maker GUANGDONG WELLING MO MANUFACTURING CO.,LTD.		
	Country of Origin China		
	Туре	DC motor	
	Brand	Wolong	
Outdoor Fan motor	Model	WZD-A02085L-01TL	
	Maker	Wolong Electric (Ji nan) Motor Co.,Ltd.	
	Country of Origin	China	
Evaporator	Volume(mm)	896mm x 399mm x 25.4 mm	
	Type Hydrophilic & Louver Fin; Innergroover to type		
Condenser	Volume(mm)	839mm x 651mm x 36.4mm	
	Туре	Louver or Corrugated Fin; Innergroover tube type	
Refrigerant	Type: R410A	1470g	
Dimensions	Indoor(mm)	Width:1191 Depth:360 Height:258	
DILIGUSIONS	Outdoor(mm)	Width:920 Depth:380 Height:699	



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)	229.9
Frequency (Hz)	60
Current (A)	10.44
Power Consumption (W)	1707
Power factor	71.1%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	26.99
Wet bulb temperature, indoor ($^{\circ}$ C)	19.00
Dry bulb temperature, outdoor (°C)	34.98
Wet bulb temperature, outdoor ($^{\circ}\!$	24.00
Barometer (Pa)	102.42
Indoor cooling capacity (Btu/h)	21492
Sensible cooling capacity(Btu/h)	20960
Latent cooling capacity (dehumidifying capacity) (Btu/h)	532
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1833.8
Cooling capacity (Btu/h)	21492
EER(Btu/h)/W	12.59



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)	3.94
Power Consumption (W)	591
Power factor	65.4%
Fan speed settings	High speed
Dry bulb temperature, indoor (°C)	27.00
Wet bulb temperature, indoor (${}^{\mathbb{C}}$)	19.00
Dry bulb temperature, outdoor (℃)	34.99
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	102.35
Indoor cooling capacity (W)	10751
Sensible cooling capacity (W)	10342
Latent cooling capacity (dehumidifying capacity) (W)	409
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1630.0
Cooling capacity (Btu/h)	10751
EER(Btu/h)/W	18.19



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)	230.3
Frequency (Hz)	60
Current (A)	10.02
Power Consumption (W)	2234
Power factor	96.8%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	29.00
Wet bulb temperature, indoor ($^{\circ}$ C)	19.01
Dry bulb temperature, outdoor ($^{\circ}\!$	46.00
Wet bulb temperature, outdoor ($^{\circ}$ C)	24.21
Barometer (Pa)	102.03
Indoor cooling capacity (Btu/h)	20885
Sensible cooling capacity(Btu/h)	20254
Latent cooling capacity (dehumidifying capacity) (Btu/h)	631
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1792.2
Cooling capacity (Btu/h)	20885
EER(Btu/h)/W	9.35



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

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	229.8
Frequency (Hz)	60
Current (A)	2.38
Power Consumption (W)	322
Power factor	58.8%
Fan speed settings	High speed
Dry bulb temperature, indoor ($^{\circ}$ C)	27.00
Wet bulb temperature, indoor ($^{\circ}$ C)	19.00
Dry bulb temperature, outdoor ($^{\circ}$ C)	34.98
Wet bulb temperature, outdoor ($^{\circ}$ C)	24.00
Barometer (Pa)	102.22
Indoor cooling capacity (Btu/h)	5988
Sensible cooling capacity(Btu/h)	5763
Latent cooling capacity (dehumidifying capacity) (Btu/h)	225
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1103.6
Cooling capacity (Btu/h)	5988
EER(Btu/h)/W	18.60



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2.5 Test record of heating capacity test (H1)

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	229.0
Frequency (Hz)	60
Current (A)	8.15
Power Consumption (W)	1789
Power factor	95.8%
Fan speed settings	High speed
Dry bulb temperature, indoor (°C)	20.00
Wet bulb temperature, indoor ($^{\circ}$ C)	15.00
Dry bulb temperature, outdoor (℃)	7.02
Wet bulb temperature, outdoor (℃)	6.00
Barometer (Pa)	101.41
Indoor heating capacity (W)	6710
Sensible heating g capacity (W)	6710
Latent heating capacity (dehumidifying capacity) (W)	/
Static pressure(Pa)	0.0
Volume flow rate of air(m3/hr)	1768.3
heating capacity W	6710
heating capacity (Btu/h)	22895
COP (Btu/h)/W	3.75



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	$\boxtimes \Box$	Tested Declared		$\boxtimes \Box \Box$	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
Temperature (H1)	20	15	7	6	230V, 60Hz



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Conclusion

Cooling	capacity test	t (for conditi	on T1- Full lo	ad capacity)	
Mode	Rated	Tested	Verifyi ng	Required EER	Verdict
Cooling capacity, Btu/h	21000	21492	2.34%	>=19950	Pass
Cooling power input, W	1750	1707	-2.46%	<=1838	Pass
EER, Btu/W ·h	12.00	12.59	4.92%	>=11.80	Pass
Cooling	capacity test	(for conditi	on T1- Half lo	oad capacity)	
Cooling capacity, Btu/h	10000	10751	7.51%	>=9500	Pass
Cooling power input, W	605	591	-2.31%	<=635	Pass
EER, Btu/W ·h	16.53	18.19	10.04%	>=15.70	Pass
	Cooling o	apacity test	(for conditio	n T3)	•
Cooling capacity, Btu/h	20300	20885	2.88%	>=19285	Pass
Cooling power input, W	2294	2234	-2.62%	<=2409	Pass
EER, Btu/W ·h	8.85	9.35	5.65%	>=8. 30	Pass
Cooling ca	pacity test (fo	or condition	T1- Minimun	n load capacity)	
Cooling capacity, Btu/h	5600	5988	6.93%	>=5320	Pass
Cooling power input, W	329	322	-2.13%	<=345	Pass
EER, Btu/W ·h	17.02	18.60	9.28%	>=16.17	Pass
		Heating cap	acity		
Heating capacity, W	6400	6710	4.84%	>=6080	Pass
Heating power input,	1829	1789	-2.19%	<=1920	Pass
COP, WW	3.50	3.75	7.14%	>=3.33	Pass
CSEC (Kwh/Y):				5376	
Energy class: (base on	rated EER			D	
at T1)					
SEER class				В	
SEER				15.00	



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- 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) \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	<u>ج</u>	С	15.0> SEER ≥ 12.5
Yellow	7	D	12.5> SEER ≥ 10.0
Orange	ھ	E	10.0> SEER ≥ 9.0
Red	و	F	9.0> SEER ≥ 8.0
Dark Red	ز	G	8.0> SEER

