



TEST REPORT

Energy Labeling and Minimum Energy Performance Requirements

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.



TEST REPORT

The rating and performance tests for 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 applica	ant		
Product name	Air conditioner			
Trademark	TCL			
Model / type reference	Indoor unit : TAC-24HS/ TCF1, outdoor unit : TAC-24HU/ TCF1,			
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			
	SASO GSO ISO 5	5151: 2017	,	
	ISO 16358-1 :2013	3/Cor 1 :20	013/AMD1 :2019	
To compile	谭民杰		後民生	
audit	王佳			
The director of the approval	张开结		2/8/ B/SZ	
Date of issue	2025-05-17			

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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	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.

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Brief description of the tested sample(s) Ratings Rated voltage/rated voltage range (V) 230 Rated frequency (Hz) 60 Rated input (W) Cooling (T1) : 1742 Cooling (T3) : 2207 Heating:1542 Cooling (T1) : 21600 Cooling (T3) : 19200 Rated capacity (Btu/h) Heating:5550 W Rated current (A) 7.8 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 5 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 ⊠ 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 ☐ Variable capacity unit 测试中心 VOITIONER (ZHONG



Photo of nameplate:

SPLIT TYPE AIR CONDITIONER جهاز تكييف هواء حائط INDOOR UNIT مكيف الهواء الداخلي

Model مودیل		TAC-24HS/TCF1			
		(Cooling(T1) تبرید(تی ۱	Cooling(T1) Cooling(T3) Heating (التدفنة تبريد(تي٣) تبريد(تي١٠		
Capacity القدرة			19200Btu/h (5.64kW)	5550W	
Current التيار		7.8A	9.9A	6.8A	
قدرة المقدرة	J.	13.5A	13.5A	9.1A	
Power Inpo مدخل الطاقة		1742W	2207W	1542W	
Rated Power لقدرة المقدرة	Input (IEC60335) مدخل ا	2900W 2900W 2200W			
EER/COP تبريد/الحرارة	معدل كفاءة الطاقة لا	12.40(Btu/hW) 8.70(Btu/hW) 3.60(WN			
Indoor Air ا تدفق الهواء		1550m³/h			
Maximum all	owable pressure الحد الأقم	4	4.5MPa		
Operating Pressure	Discharge ضغط الإطلاق	4.5MPa			
الضبغط	Suction ضغط الاستنشاق	1.9MPa			
Noise الضجيج		53dB(A)			
Weight الوزن		18kg			
Rated Volt	age/Frequency التردد/الج	230V~ / 60Hz			

Serial number: شركة محدودة تكييف الهواء TCL(تشرنفشان) الرقم السلسل المقم السلسل رقم ٥٩، طوب شارع دائلتو، منافلة أو الخدونة ، الصين عند عند الصنه: ٢٤١٥-١٥)، مقاطعة أو الخدونة ، الصين

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SPLIT TYPE AIR CONDITIONER جهاز تکییف هواء حائط OUTDOOR UNIT مكيف الهواء الخارجي

Model مودیل		TAC-24HU/TCF1			
		Cooling(T1) تبرید(تي ۱)			
Capacity القدرة		21600Btu/h (6.33kW)	19200Btu/h (5.64kW)	5550W	
Current التيار		7.8A	9.9A	6.8A	
Rated Curre لقدرة المقدرة	nt (IEC60335) تيار اا	13.5A	13.5A	9.1A	
Power Inpu مدخل الطاقة		1742W	2207W	1542W	
Rated Power لقدرة المقدرة	Input (IEC60335) مدخل ا	2900W	2900W 2900W 2200W		
EER/COP تبريد/الحرارة	معدل كفاءة الطاقة لا	12.40(Btu/h/W) 8.70(Btu/h/W) 3.60(W/W)			
Maximum all سي للضيغط	owable pressure الحد الأقم	4.5MPa			
Operating Pressure	Discharge ضغط الإطلاق	4.5MPa			
الضغط لضاغط الغاز	Suction ضغط الاستنشاق	1.9MPa			
Noise الضجيج		55dB(A)			
Weight الوزن		44kg			
Rated Volt هد الكهرباني	age/Frequency التردد/الج	230V~ / 60Hz			
Refrigerani ید / الکمیة		R410A/1.450kg			
Outdoor Unit WaterProof Protection IPX4 درچة الحماية من الماء لمكوف الهواء الخارجي ٤٠٪اي بي					

Serial number: (تشرنغشان) TCL (تشرنغشان) الرقم المىلسل الرقم المىلسل صنع في الصين

رقم ٥٩ ، غرب شارع دائتو ، دائتو ، مدينة تشونفشان Made in China (الرقم البريدي: ٥٢٨٤٢٧)، مقاطعة قرانغدينغ ، الصين صند قر المسرد



TCL

Photo of the tested sample:









Photo of compressor:







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Test method		Enthalpy test room			
	Total cooling capacity in Btu/h	21655			
COOLING CAPACITY(T1)	Air conditioner power consumption in W	1751			
	Energy Efficiency Ratio(EER)	12.38			
	Total cooling capacity in Btu/h	19280			
COOLING CAPACITY(T3)	Air conditioner power consumption in W	2217			
	Energy Efficiency Ratio(EER)	8.70			
	Total heating capacity in W	5558			
HEATING CAPACITY	Air conditioner power consumption in W	1544			
	Energy Efficiency Ratio(COP)	3.6			
Test Result:					
☑ Pass □ Fail					
Note: If failed, it shall be indicated which part it was fail in.					





1- Sample Information

1- Sample Information Brand	TCL			
	System (if application)	TAC-24HSU/TCF1		
Model No.	Indoor (split system onl	y) TAC-24HS/TCF1		
	Outdoor (split syste only)			
Serial number	Indoor:	Outdoor:		
Air Condition or Time	G440N0600100G326001	5 G440W0600100G3260015		
Air-Conditioner Type	Split air conditioner			
Air Distribution	Two way (Up-down)	a of Datriana and (lan)		
Type of system		s of Refrigerant (kg) 1.450		
Heat transfer	Cooling and heating			
Voltage(V)	230			
Phase	1ph			
Hz	60			
	Туре	Fixed capacity unit		
	Brand	Highly		
Compressor	Model Name	ASL180DG-C7EU6		
	Maker	Shanghai Highly Electrical Appliances Co.,		
	Country of Origin China			
	Type DC motor			
	Brand	BROAD-OCEAN		
Indoor Fan motor	Model	210900290B		
	Maker ZHONGSHAN BROAD-OCEAN MOTOR Co., LTD.			
	Country of Origin	China		
	Туре	AC motor		
	Brand	BROAD-OCEAN		
Outdoor Fan motor	Model	210901758		
	Maker	ZHONGSHAN BROAD-OCEAN MOTOR Co., LTD.		
	Country of Origin	China		
Evaporator	Volume(mm)	895 mm x 378 mm x 25. 4 mm		
	Туре	Hydrophilic & Louver Fin; Innergroover tube type		
Condenser	Volume(mm)	809mm x 663 mm x 23.2 mm		
	Туре	Louver or Corrugated Fin; Innergroover tube type		
Refrigerant	Type: R410A	1450g		
Dimensions	Indoor(mm)	Width:1020 Depth :315 Height :220		
פווטוטווטווט	Outdoor(mm)	Width:920 Depth:380 Height:699		

测试中心

ONOITIONER (ZHONGSHAN)



2- Test report

2.1 Cooling capacity test (T1)

Data to be recorded for Enthalpy cooling capacity tests

Test Duration(min)	90
Power supplied	230V~, 1Ph
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	7.85
Power Consumption (W)	1751
Power factor	97.0%
Fan speed settings	High speed
Dry bulb temperature, indoor ($^{\circ}$ C)	27.01
Wet bulb temperature, indoor ($^{\circ}$ C)	19.00
Dry bulb temperature, outdoor ($^{\circ}\!$	35.01
Wet bulb temperature, outdoor ($^{\circ}\!$	24.01
Barometer (Pa)	101.06
Indoor cooling capacity (Btu/h)	21655
Sensible cooling capacity(Btu/h)	18141
Latent cooling capacity (dehumidifying capacity) (Btu/h)	3514
Static pressure(Pa)	263
Volume flow rate of air(m3/hr)	1553
Cooling capacity (Btu/h)	21655
EER(Btu/h)/W	12.37





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2.2 Test record of cooling capacity test (T3)

Test Duration(min)	90
Power supplied	230V~, 1Ph
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	9.94
	2217
Power Consumption (W)	
Power factor	97%
Fan speed settings	High speed
Dry bulb temperature, indoor ($^{\circ}$ C)	29.01
Wet bulb temperature, indoor (${}^{\circ}\!\mathbb{C}$)	19.00
Dry bulb temperature, outdoor (°C)	46.02
Wet bulb temperature, outdoor (℃)	24.02
Barometer (Pa)	101.23
Indoor cooling capacity (Btu/h)	19280
Sensible cooling capacity(Btu/h)	17900
Latent cooling capacity (dehumidifying capacity) (Btu/h)	1380
Static pressure(Pa)	267
Volume flow rate of air(m3/hr)	1552
Cooling capacity (Btu/h)	19280
EER(Btu/h)/W	8.70



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2.3 Test record of heating capacity test (H1)

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	230
Frequency (Hz)	60
Current (A)	6.97
Power Consumption (W)	1554
Power factor	97.0%
Fan speed settings	High speed
Dry bulb temperature, indoor (°C)	20.00
Wet bulb temperature, indoor ($^{\circ}$ C)	15.02
Dry bulb temperature, outdoor (°C)	7.02
Wet bulb temperature, outdoor (℃)	6.01
Barometer (Pa)	100.56
Indoor heating capacity (W)	5558
Sensible heating g capacity (W)	5558
Latent heating capacity (dehumidifying capacity) (W)	1
Static pressure(Pa)	246
Volume flow rate of air(m3/hr)	1551
heating capacity W	5558
COP W/W	3.60





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2.4 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			□ Pass
AC)	☐ Declared		☐ Fail
Condensate control and enclosure sweat			□ Pass
performance	☐ Declared		☐ Fail
Operability at 52 °C		✓ Yes □ No □ N	on Relevant
	□ Declared		
Operability at minimum cooling conditions	□ Tested	⊠ Yes □ No □ N	on Relevant
	☐ Declared		
Freeze up air blockage	□ Tested		on Relevant
	☐ Declared		
Freeze-up drip	□ Tested	⊠ Yes □ No □ N	on Relevant
	☐ Declared		
Condensate control	□ Tested	⊠ Yes □ No □ N	on Relevant
	☐ Declared		
Enclosure sweat performances			on Relevant
	□ Declared		

2.5 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	C
Cooling mode (T1)	27	19	35	24	230V, 60Hz
Cooling mode (T3)	29	19	46	24	230V, 60Hz







Conclusion

	Coolir	ng capacity te	est (for condition	T1)			
Model	Rated	Tested	Verifying limit *	Requir ed EER	Required EER/MEPS	Verdict	
Cooling capacity, Btu/h	21600	21655	0.25%	>=20520		Pass	
Cooling power input, W	1742	1751	0.52%	<=1829.1		Pass	
EER, Btu/W ⋅h	12.400	12.367	-0.26%	>=11.78	11.80	Pass	
Cooling capacity test (for condition T3)							
Cooling capacity, Btu/h	19200	19280	0.42%	>=18240		Pass	
Cooling power input, W	2207	2217	0.45%	<=2317.4		Pass	
EER, Btu/W ·h	8.700	8.696	-0.04%	>=8. 26	8.30	Pass	
Heating capacity test							
Heating capacity, W	5550	5558	0.14%	1	1	Pass	
Heating power input,	1542	1544	0.13%	1	1	Pass	
COP, WW	3.600	3.600	0.01%	1	1	Pass	
Annual Energy							
Consumption(AEC) (kWh)				7283			
SEER				10.50			
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

