Page 1 of 14

(中山)

№: PMC20191106004

TEST REPORT

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

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

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

Page 2 of 14 Report No.: PMC20191106004

TEST REPORT

The rating and performance tests for Air-conditioner					
Applicant Name:	TCL Air Condition	TCL Air Conditioner (Zhongshan) Co., Ltd.			
Address:	59 Nantou Road	d West, Na	intou, Zhongshan, Guang	dong, China	
Manufacturer:	TCL Air Condition	oner (Zhon	igshan) Co., Ltd.		
Address:	59 Nantou Road	d West, Na	ıntou, Zhongshan, Guang	dong, China	
Factory:	Same as appli	cant			
Product name	Air conditioner TCL TAC-30CHS/X8 230V~ 60Hz				
Date of receipt of test item	2019-11-06 Date(s) of test 2019-11-06				
Test specification/Standard	SASO 2663/2018 SASO GSO ISO 5151: 2010				
To compile	谭民杰				
audit	王佳 玉茛				
The director of the approval	张开结 2000元				
Date of issue	2019-11-06				

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测试中心 TEST CENTER

DITIONER (ZHONGS)

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	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.



Report No.: PMC20191106004

Brief	description of the tested sample(s)	
1	Ratings	
	Rated voltage/rated voltage range (V)	230
	Rated frequency (Hz)	60
	Rated input (W)	Cooling (T1) : 2129 Cooling (T3) : 2529
	. , ,	Heating 1944
	Rated capacity (Btu/h)	Cooling (T1) : 26400 Cooling (T3) : 22000
		Heating: 7000W
	Rated current (A)	N/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
		Single-duct
		Double ducts
5	The number of the indoor units if multi-split type	
6	Type of the indoor unit if split type	☐ Wall-mounted
		Free-standing
		Ceiling-mounted
_	The section of sections and the section of	Other type
7	Type of outdoor unit if split type	Free-standing
•	Complementary baction along out	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
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		(中山) 海源
		2 测试中心 皿
		TEST CENTER
		SONDITIONER (ZHONGSHAPE)

Page 5 of 14 Report No.: PMC20191106004

Photo of nameplate:

TCL

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

Model موديل	TAC-30CHS/X8		
	(Cooling(T1) تبرید(تی ۱	Heating التدفنة	
Capacity القدرة	26400Btu/h (7.75kW)	7000W	
Current التيار	9.4A	8.6A	
Rated Current (IEC60335) تيار القدرة المقدرة	17.9A	14.5A	
Power Input مدخل الطاقة	2129W	1944W	
Rated Power Input (IEC60335) مدخل القدرة المقدرة	3300W	2700W	
EER/COP معدل كفاءة الطاقة اللتبريد/الحرارة	12.40(Btu/hW)	3.60(W/W)	
Indoor Air Volume حجم تدفق الهواء	1500m³/h		
Maximum all owable pressure الحد الأقصىي للضغط	4.5	MPa	
Operating Discharge Pressure منتقد الإطلاق	4.5	MPa	
Suction الضغط ضغط الاستشاق لضاغط الغاز	1.9MPa		
Noise الضجيج	51dB(A)		
Weight الوزن	18kg		
Rated Voltage/Frequency التردد/الجهد الكهرباتي	230V~/60Hz		

Serial number: الرقم السلسل Made in China صنع في الصين

TCL

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

Model مودیل		TAC-30CHS/X8			
		Cooling(T1) Cooling(T3) Heating (۱ تيريد(تي٣) تبريد(تي ۱			
Capacity القدرة		26400Btu/h (7.75kW)	22000Btu/h (6.45kW)	7000W	
Current التيار		9.4A	11.2A	8.6A	
لقدرة المقدرة		17.9A	17.9A	14.5A	
Power Inpu مدخل الطاقة		2129W	2529W	1944W	
Rated Power لقدرة المقدرة	Input (IEC60335) مدخل ا	3300W	3300W	2700W	
EER/COP تبريد/الحرارة	EER/COP معدل كفاءة الطاقة للتبريد/الحرارة		8.70(Btu/h/W)	3.60(W/W)	
Maximum all سى للضيغط	owable pressure الحد الأقم	4.5MPa			
Operating Pressure	Discharge ضغط الإملاق	4.5MPa			
الضغط لضاغط الغاز	Suction ضغط الاستنشاق	1.9MPa			
Noise الضجيج			55dB(A)		
Weight الوزن		60kg			
Rated Volt هد الكهرباتي	Rated Voltage/Frequency التردد/الجهد الكهرباتي		230V~ / 60Hz		
	Refrigerant/Charge غاز التبريد / الكمية		R410A/2.000kg		
Ou	Outdoor Unit Water Proof Protection IPX4 درجة الحماية من الماء لمكيف الهراء الخارجي ٤xأي بي				

Serial number: الرقم السلسل Made in China صنع في الصين





Page 7 of 14 Report No.: PMC20191106004





Page 8 of 14 Report No.: PMC20191106004

Summary				
Test method		Enthalpy test room		
	Total cooling capacity in Btu/h	26500		
COOLING CAPACITY(T1)	Air conditioner power consumption in W	2120		
	Energy Efficiency Ratio(EER) in Btu/h/w	12.50		
	Total cooling capacity in Btu/h	22200		
COOLING CAPACITY(T3)	Air conditioner power consumption in W	2520		
	Energy Efficiency Ratio(EER) in Btu/h/w	8.81		
	Total heating capacity in W	7050		
HEATING CAPACITY	Air conditioner power consumption in W	1930		
	Energy Efficiency Ratio(COP)	3.65		
Test Result:				
▼ Pass	3	□ Fail		
Note: If failed it shall be indicated which part it was fail in				



Page 9 of 14 Report No.: PMC20191106004

1- Sample Information

Brand	TCL					
	System (if application)	KT3FR-63GW/YXA(E/6)(AVY00)			(AVY00)	
Model No.	Indoor (split system on	ly)	/			
	Outdoor (split syst	em	/			
Serial number	Indoor:			Outd		
	G440N0200100G325000)2		G440	0W0200100G	3250002
Air-Conditioner Type	•	Split air conditioner				
Air Distribution	Two way (Up-down)					T
Type of system	•			rigerant	t (kg)	2.000
Heat transfer	Cooling only and heat pu	ımp	type			
Voltage(V)	230					
Phase	1ph					
Hz	60					
	Туре	F	lerm	etic m	otor-compre	essor
	Brand	F	IIGHL	Υ		
Compressor	Model Name	Α	SH21	15DG-C	C8DU	
	Maker	SHANGHAI HIGHLY ELECTRICAL APPL CO., LTD		CAL APPLIANCES		
	Country of Origin	gin China				
	Туре	D	C mc	otor		
	Brand BROAD-OCEAN/Welling					
Indoor Fan motor	Model 210900290B					
	Maker ZHONGSHAN BROAD-OCEAN MOTOR Co., LTD Guangdong Welling Motor Manufacturi Co., Ltd					
	Country of Origin	С	hina			
	Туре	Α	C mc	tor		
	Brand	BR	OAD-C	CEAN/W	elling	
Outdoor Fan motor	Model	1	17004	0154		
	Maker	Z	HONGS	HAN BR	OAD-OCEAN MC	TOR Co., LTD.
		Guangdong Welling Motor Manufacturing Co.,Ltd				
	Country of Origin	С	hina			
Evaporator	Volume(mm)	895mm x 378 mm x 38.1 mm				
	Туре	Hydrophilic & Louver Fin; Innergroover tube type				
Condenser	Volume(mm)	1025mm x 756 mm x 36. 4 mm				
	Туре	Louver or Corrugated Fin; Innergroover tube type				
Refrigerant	Type: R410A	2	000g			
Dimensions	Indoor(mm)	V	Vidth	:1186	Depth :340	Height :258
פווטופוואוווע	Outdoor(mm) (中山)	Width:953 Depth:433 Heigl		Height :808		

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ONDITIONER (ZHONGSH

2- Test report

2.1 Cooling capacity test (T1)

Data to be recorded for Enthalpy cooling capacity tests

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	9.50
Power Consumption (W)	2120
Power factor	97.0%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	27.02
Wet bulb temperature, indoor ($^{\circ}\!\mathbb{C}$)	19.03
Dry bulb temperature, outdoor (℃)	35.01
Wet bulb temperature, outdoor (℃)	23.98
Barometer (Pa)	100.21
Indoor cooling capacity (Btu/h)	26500
Sensible cooling capacity(Btu/h)	21200
Latent cooling capacity (dehumidifying capacity) (Btu/h)	5300
Static pressure(Pa)	232
Volume flow rate of air(m3/hr)	1503
Cooling capacity (Btu/h)	26500
EER(Btu/h)/W	12.50



2.2 Test record of cooling capacity test (T3)

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	11.30
Power Consumption (W)	2520
Power factor	97.0%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	29.00
Wet bulb temperature, indoor (${}^{\circ}\!\mathbb{C}$)	19.00
Dry bulb temperature, outdoor (°C)	46.02
Wet bulb temperature, outdoor ($^{\circ}\!$	24.01
Barometer (Pa)	100.40
Indoor cooling capacity (Btu/h)	22200
Sensible cooling capacity(Btu/h)	20202
Latent cooling capacity (dehumidifying capacity) (Btu/h)	1998
Static pressure(Pa)	243
Volume flow rate of air(m3/hr)	1578
Cooling capacity (Btu/h)	22200
EER(Btu/h)/W	8.81



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)	8.65
Power Consumption (W)	1930
Power factor	97.0%
Fan speed settings	High speed
Dry bulb temperature, indoor (℃)	20.00
Wet bulb temperature, indoor (℃)	15.00
Dry bulb temperature, outdoor (℃)	7.01
Wet bulb temperature, outdoor (°C)	6.00
Barometer (Pa)	100.58
Indoor heating capacity (W)	7050
Sensible heating g capacity (W)	7050
Latent heating capacity (dehumidifying capacity) (W)	/
Static pressure(Pa)	234
Volume flow rate of air(m3/hr)	1509
heating capacity W	7050
COP W/W	3.65



Page 13 of 14 Report No.: PMC20191106004

2.4 Functional Performance – Cooling

Operability at Maximum cooling conditions at	⊠ Tested	Result:	⊠ Pass
T3 conditions	Declared		☐ Fail
Minimum cooling at T3 conditions			□ Pass
	□ Declared		☐ Fail
Freeze-up drip at T3 conditions (non-ducted AC)			□ Pass
	□ Declared		☐ Fail
Condensate control and enclosure sweat			□ Pass
performance	☐ Declared		☐ Fail

2.5 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	J
Cooling mode (T1)	27	19	35	24	230V, 60Hz
Cooling mode (T3)	29	19	46	24	230V, 60Hz
Temperature (H1)	20	15	7	6	230V, 60Hz



Conclusion

Cooling capacity test (for condition T1)								
Mode	Rated	Tested	Verifyi ng	Required EER	Verdict			
Cooling capacity, Btu/h	26400	26500	0.4%	>=25080	Pass			
Cooling power input, W	2129	2120	-0.4%	<=2235	Pass			
EER, Btu/W ·h	12.40	12.50	0.8%	>=11.80	Pass			
Cooling capacity test (for condition T3)								
Cooling capacity, Btu/h	22000	22200	0.9%	>=20900	Pass			
Cooling power input, W	2529	2520	-0.4%	<=2655	Pass			
EER, Btu/W ·h	8.70	8.81	1.3%	>=8.30	Pass			
Heating capacity								
Heating capacity, W	7000	7050	0.7%	>=6650	Pass			
Heating power input,	1944	1930	-0.7%	<=2041	Pass			
COP, WW	3.60	3.65	1.5%	>=3.42	Pass			
Estimated annual	energy							
consumption (Kwh/Y):		5748						
Energy class: (base on rated EER		D						
at T1)								

* 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

