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№：CAC20250200002

TEST REPORT

NAMEOF SAMPLE: Air Conditioner

APPLICANT: GD TCL Intelligent Heating & Ventilating Equipment Co., Ltd.

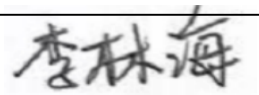
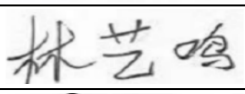
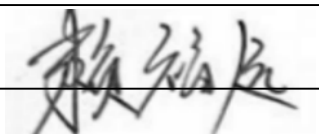
CLASSIFICATION OF TEST: Commission Test

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

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

TEST REPORT

The rating and performance tests for Air-conditioner

Applicant Name..... :	GD TCL Intelligent Heating & Ventilating Equipment Co., Ltd.		
Address .....:	NO.7 Yuanlin Road, Nantou Town, Zhongshan City, Guangdong P.R. China		
Manufacturer .....:	GD TCL Intelligent Heating & Ventilating Equipment Co., Ltd.		
Address .....:	NO.7 Yuanlin Road, Nantou Town, Zhongshan City, Guangdong P.R. China		
Factory .....:	Same as applicant		
Product name..... Trademark..... Model / type reference..... Rating and characteristics.....	Air conditioner TCL TCC-24D1HWH/DVT-(C5) 220-240 V~ 60Hz		
Date of receipt of test item	2025-03-05	Date(s) of test	2025-03-05
Test specification/Standard.....	SASO 2663:2021+ A1:2023 used with ISO 16358-1 :2013/Cor 1 :2013/AMD1 :2019 ISO 13253:2017+A1:2020		
To compile	李林海		
audit.....	林艺鸣		
The director of the approval	赖福远		
Date of issue.....	2025-03-06		

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.

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'℃, medium speed wind, press the ECO or Sleep button 7 times continuously within 8 seconds, and the buzzer beeps 3 times, then set 31℃;

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℃, medium speed wind, press the ECO or Sleep button 7 times continuously within 8 seconds, and the buzzer beeps 3 times, then set 28℃.

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 ℃, medium speed wind, press the ECO or Sleep button 7 times continuously within 8 seconds, and the buzzer beeps 3 times, then set 30℃;

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' ℃, medium speed wind, press the ECO or Sleep button 7times continuously within 8 seconds, and the buzzer beeps 3 times, then set 29 ℃;

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'℃, 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 16℃.

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

Brief description of the tested sample(s)		
1	Ratings	
	Rated voltage/rated voltage range (V)	220-240
	Rated frequency (Hz)	60
	Rated input (W)	Cooling（T1） : 1920 Cooling（T3） : 2390 Heating: 2190
	Rated capacity (Btu/h)	Cooling（T1） : 24200 Cooling（T3） : 22000 Heating: 27640
	Rated current (A)	Cooling（T1） :8.73 Cooling（T3） : 10.86 Heating: 9.95
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 (A/C Configuration— Air Distribution)	☐ Spot ☒ Single-duct ☐ Double ducts ☐ Non Ducted
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 ☐ Other type
7	Type of outdoor unit if split type	☒ Free-standing ☐ 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

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN) CO.,LTD.

Photo of nameplate:

TCL **DUCT TYPE AIR CONDITIONER — —Indoor Unit**
مكيف هواء من نوع مجرى وحدة داخلية

Model موديل		TCC-24D1HWH/DVT-(C5)				
	Indoor الداخلي	TCC-24D1HWH/DVTI-(C5)				
	Outdoor الخارجي	TCC-24HH/DVTO-(C5)				
Rated Volt الجهد الكهربائي		220-240V~		Cooling(T1) تبريد	Cooling(T3) تبريد	Heating التدفئة
Rated Frequency التردد المقدر		60Hz	Capacity القدرة	24200Btu/h	22000Btu/h	8100W
Air Volume حجم الهواء		1500m³/h				
Weight الوزن		28.5kg	Power Input مدخل الطاقة	1920W	2390W	2190W
Noise الضجيج		43dB(A)	Current التيار	8.73A	10.86A	9.95A
Rated Current(IEC60335) تيار القدرة المقدرة		15.5A	EER/COP معدل كفاءة الطاقة	12.60 Btu/h/W	9.20 Btu/h/W	3.70 W/W
Rated Power Input(IEC60335) مدخل القدرة المقدرة		3500W	Refrigerant/Charge غاز التبريد / الكمية			R32/1.7kg
Operating Pressure الضغط لضاغط الغاز	Discharge ضغط الإطلاق	4.5MPa	Maximum Allowable Pressure الحد الأقصى للضغط			4.5MPa
	Suction ضغط الاستنشاق	1.9MPa	Outdoor Unit Water Proof Protection وحدة المياه في الهواء الطلق حماية دليل			IPX4

A2L

MADE IN CHINA
صنع في الصين
GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO., LTD.
NO. 7 Yuanlin Road, Nantou Town, Zhongshan City, Guangdong P.R.China

TCL

SPLIT TYPE AIR CONDITIONER **Outdoor Unit**
جهاز تكييف هواء حائط وحدة في الهواء الطلق

Model موديل		TCC-24HH/DVTO-(C5)
Rated Volt الجهد الكهربائي		220-240V~
Rated Frequency التردد المقدر		60Hz
Rated Power Input(IEC60335) مدخل القدرة المقدرة		3500W
Rated Current(IEC60335) تيار القدرة المقدرة		15.5A
Maximum allowable pressure الحد الأقصى للضغط		4.5MPa
Operating Pressure الضغط لضاغط الغاز	Discharge ضغط الإطلاق	4.5MPa
	Suction ضغط الاستنشاق	1.9MPa
Noise الضجيج		56dB(A)
Weight الوزن		46kg
Water Proof Protection حماية مقاومة المياه		IPX4
Refrigerant/Charge غاز التبريد / الكمية		R32/1.7kg

A2L

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GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO., LTD.
NO. 7 Yuanlin Road, Nantou Town, Zhongshan City, Guangdong P.R.China

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN) CO.,LTD

Photo of the tested sample:

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN) CO.,LTD.

Photo of compressor:

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN) CO.,LTD.

Summary

Test method		Enthalpy test room
COOLING CAPACITY(T1-Full load capacity)	Total cooling capacity in Btu/h	24887
	Air conditioner power consumption in W	1923
	Energy Efficiency Ratio(EER) in Btu/h/w	12.95
COOLING CAPACITY(T1-Half load capacity)	Total cooling capacity in Btu/h	12143
	Air conditioner power consumption in W	723
	Energy Efficiency Ratio(EER) in Btu/h/w	16.79
COOLING CAPACITY(T3)	Total cooling capacity in Btu/h	22703
	Air conditioner power consumption in W	2405
	Energy Efficiency Ratio(EER) in Btu/h/w	9.44
HEATING CAPACITY	Total cooling capacity in w	8278
	Air conditioner power consumption in W	2188
	Energy Efficiency Ratio(COP) in w/w	3.78

Test Result:

☒ **Pass** ☐ **Fail**

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

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN) CO.,LTD.

1- Sample Information

Brand	TCL			
Model No.	**System (if application)**	TCC-24D1HWH/DVT-(C5)		
	Indoor (split system only)	TCC-24D1HWH/DVTI-(C5)		
	Outdoor (split system only)	TCC-24HH/DVTO-(C5)		
Serial number	Indoor: A00099	Outdoor: A00106		
Air-Conditioner Type	Split air conditioner			
Air Distribution	One way			
Type of system	R32	Mass of Refrigerant (kg)	1.7	
Heat transfer	Cooling mode and heating mode			
Voltage(V)	230			
Phase	1ph			
Hz	60			
Compressor	**Type**	Rotary		
	Brand	SANYO		
	Model Name	C-6RZ210H3BAF		
	Maker	AVIC ELECTROMECHANICAL(SHENYANG)SANYO REFRIGERATION EQUIPMENT Co.,Ltd		
	Country of Origin	China		
Indoor Fan motor	**Type**	DC motor		
	Brand	Broad-ocean		
	Model	ZW511B500140L		
	Maker	ZHONGSHAN BROAD-OCEAN MOTOR CO.,LTD.		
	Country of Origin	China		
Outdoor Fan motor	**Type**	DC motor		
	Brand	Broad-ocean		
	Model	ZW511B500074L		
	Maker	ZHONGSHAN BROAD-OCEAN MOTOR CO..LTD		
	Country of Origin	China		
Evaporator	**Volume(mm)**	740mm x 336 mm x 38.1mm		
	Type	Hydrophilic		
Condenser	**Volume(mm)**	994mm x 756 mm x 36.4mm		
	Type	Hydrophilic		
Refrigerant	**Type: R32**	1700g		
Dimensions	Indoor(mm)	Width:920	Depth :700	Height :245
	Outdoor(mm)	Width :910	Depth :378	Height :804

2- Test report

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN) CO.,LTD.

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)	230.0
Frequency (Hz)	60
Current (A)	11.916
Power Consumption (W)	1923
Power factor	98.1%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	27.00
Wet bulb temperature, indoor (℃)	19.00
Dry bulb temperature, outdoor (℃)	35.00
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	101680
Indoor cooling capacity (Btu/h)	24877
Sensible cooling capacity(Btu/h)	22249
Latent cooling capacity (dehumidifying capacity) (Btu/h)	2628
Static pressure(Pa)	25
Volume flow rate of air(m3/hr)	1642
Cooling capacity (Btu/h)	24877
EER(Btu/h)/W	12.95

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2.2 Cooling capacity test (T1-Half load capacity)

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	4.621
Power Consumption (W)	723
Power factor	97.9%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	27.00
Wet bulb temperature, indoor (℃)	19.00
Dry bulb temperature, outdoor (℃)	35.00
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	101260
Indoor cooling capacity (W)	3559
Sensible cooling capacity (W)	3400
Latent cooling capacity (dehumidifying capacity) (W)	159
Static pressure(Pa)	25
Volume flow rate of air(m3/hr)	1606
Cooling capacity (W)	3559
Cooling capacity (Btu/h)	12143
EER(Btu/h)/W	17.5

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2.3 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)	14.77
Power Consumption (W)	2405
Power factor	98.1%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	29.00
Wet bulb temperature, indoor (℃)	19.00
Dry bulb temperature, outdoor (℃)	46.00
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	101860
Indoor cooling capacity (Btu/h)	22703
Sensible cooling capacity(Btu/h)	21987
Latent cooling capacity (dehumidifying capacity) (Btu/h)	716
Static pressure(Pa)	25
Volume flow rate of air(m3/hr)	1682
Cooling capacity (Btu/h)	22703
EER(Btu/h)/W	9.44

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2.4 Test record of heating capacity test (H1)

Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	9.89
Power Consumption (W)	2188
Power factor	97.3%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	20
Wet bulb temperature, indoor (℃)	15
Dry bulb temperature, outdoor (℃)	7
Wet bulb temperature, outdoor (℃)	6
Barometer (Pa)	101050
Indoor heating capacity (W)	8278
Sensible heating g capacity (W)	8278
Latent heating capacity (dehumidifying capacity) (W)	0
Static pressure(Pa)	25
Volume flow rate of air(m3/hr)	1872
heating capacity W	8278
heating capacity (Btu/h)	28244
COP (Btu/h)/W	12.89

TCL空调器（中山）有限公司 测试中心 TEST CENTER TCL AIR CONDITIONER (ZHONGSHAN)CO.,LTD.

2.5 Functional Performance – Cooling&Heating

Operability at Maximum cooling conditions at 52℃	☒ 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**	
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
Temperature (H1)	**20**	**15**	**7**	**6**	230V, 60Hz

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Conclusion

Cooling capacity test (for condition T1- Full load capacity)					
Mode	**Rated**	**Tested**	**Verifying**	**Required EER**	Verdict
Cooling capacity, Btu/h	**24200**	**24887**	**2.2%**	**>=22990**	Pass
Cooling power input, W	**1920**	**1923**	**0.1%**	**<=2016**	Pass
EER, Btu/W ·h	**12.60**	**12.95**	**2.7%**	**>=11.80**	Pass
Cooling capacity test (for condition T1- Half load capacity)					
Cooling capacity, Btu/h	**12100**	**12143**	**0.4%**	**>=11495**	Pass
Cooling power input, W	**710**	**723**	**1.8%**	**<=746**	Pass
EER, Btu/W ·h	**17.00**	**16.79**	**-1.3%**	**>=16.15**	Pass
Cooling capacity test (for condition T3)					
Cooling capacity, Btu/h	**22000**	**22703**	**3.2%**	**>=20900**	Pass
Cooling power input, W	**2390**	**2405**	**0.6%**	**<=2509**	Pass
EER, Btu/W ·h	**9.20**	**9.44**	**2.6%**	**>=8. 30**	Pass
Heating capacity test					
Heating capacity, W	**8100**	**8278**	**2.2%**	**>=7695**	Pass
Heating power input, W	**2190**	**2188**	**-0.1%**	**<=2299**	Pass
COP, WW	**3.7**	**3.78**	**2.2%**	**>=3.51**	Pass
CSEC (Kwh/Y):		5811			
Energy class: (base on rated EER at T1)		B			
SEER class		B			
SEER		15.0			
Annual Energy Consumption(AEC) (kWh)		5148			
Remark: the results are based on mandatory tests and the default values used in other tests(if applicable) in Table 4 for test characteristics at T1 and T3 in standard SASO 2663:2021					

Cooling capacity(T1 Full load capacity)	≥ 0.95 × rated capacity
Cooling power input(T1 Full load capacity)	≤ 1.05× rated
Cooling capacity(Half load capacity)	≥ 0.95 × rated capacity
Cooling capacity(T3)	≥ 0.95 × rated capacity
Cooling power input(T3)	≤ 1.05× rated
Heating capacity	≥ 0.95 × rated capacity
Heating power input	≤ 1.05× rated
EER(T1 Full load capacity)	≥ 0.95 × rated
EER(T3)	≥ 0.95 × rated
COP	≥ 0.95 × rated

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Nergy Rating Classification

Table 6 – Seasonal Energy Efficiency Ratio (SEER) Classification			
Bar color	**Energy class**		**SEER limits (Btu/W.h)**
Dark green	أ	A	SEER ≥ 18.0
Green	ب	B	18.0> SEER ≥ 15.0
Light green	ج	C	15.0> SEER ≥ 12.5
Yellow	د	D	12.5> SEER ≥ 10.0
Orange	هـ	E	10.0> SEER ≥ 9.0
Red	و	F	9.0> SEER ≥ 8.0
Dark Red	ز	G	8.0> SEER

TCL空调器（中山）有限公司
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