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№：CAC20250200001

TEST REPORT

NAMEOF SAMPLE: Air Conditioner

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

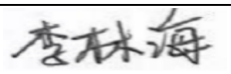
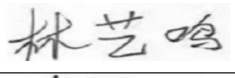
CLASSIFICATION OF TEST: Commission Test

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-24CHRH/DVT-(C5) 220-240 V~ 60Hz		
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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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)

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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） : 1930 Cooling（T3） : 2390 Heating: 2170
	Rated capacity (Btu/h)	Cooling（T1） : 24000 Cooling（T3） : 22000 Heating: 27300
	Rated current (A)	Cooling（T1） :8.77 Cooling（T3） : 10.86 Heating: 9.86
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

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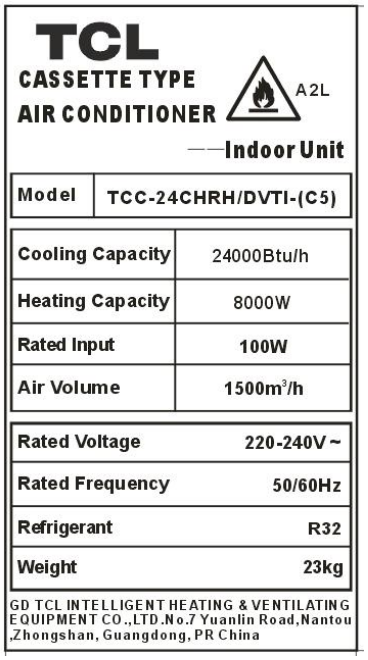
Photo of nameplate:



TCL

CASSETTE TYPE AIR CONDITIONER A2L

——Indoor Unit

Model	TCC-24CHRH/DVTI-(C5)
Cooling Capacity	24000Btu/h
Heating Capacity	8000W
Rated Input	100W
Air Volume	1500m³/h
Rated Voltage	220-240V~
Rated Frequency	50/60Hz
Refrigerant	R32
Weight	23kg

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TCL

SPLIT TYPE AIR CONDITIONER A2L

——Outdoor Unit

Model		TCC-24HH/DVTO-(C5)
Rated Volt		220-240V~
Rated Frequency		50/60Hz
Rated Power Input(IEC60335)		3500W
Rated Current(IEC60335)		15.5A
Maximum allowable pressure		4.5MPa
Operating Pressure	Discharge	4.5MPa
	Suction	1.9MPa
Weight		46kg
Water Proof Protection		IPX4
Refrigerant/Charge		R32/1.7kg

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Photo of the tested sample:

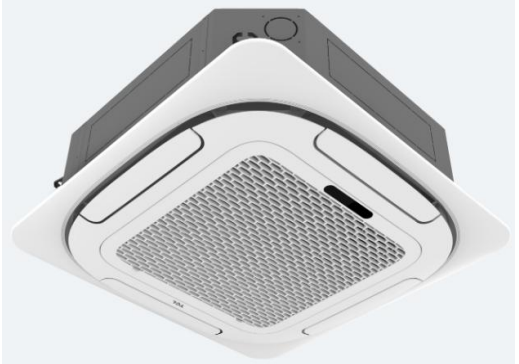

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Photo of compressor:

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Summary

Test method		Enthalpy test room
COOLING CAPACITY(T1-Full load capacity)	Total cooling capacity in Btu/h	24498
	Air conditioner power consumption in W	1933
	Energy Efficiency Ratio(EER) in Btu/h/w	12.66
COOLING CAPACITY(T1-Half load capacity)	Total cooling capacity in Btu/h	12170
	Air conditioner power consumption in W	694
	Energy Efficiency Ratio(EER) in Btu/h/w	17.5
COOLING CAPACITY(T3)	Total cooling capacity in Btu/h	22550
	Air conditioner power consumption in W	2366
	Energy Efficiency Ratio(EER) in Btu/h/w	9.53
HEATING CAPACITY	Total cooling capacity in w	8337
	Air conditioner power consumption in W	2195
	Energy Efficiency Ratio(COP) in w/w	3.79

Test Result:

☒ **Pass** ☐ **Fail**

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

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1- Sample Information

Brand	TCL			
Model No.	**System (if application)**	TCC-24CHRH/DVT-(C5)		
	Indoor (split system only)	TCC-24CHRH/DVTI-(C5)		
	Outdoor (split system only)	TCC-24HH/DVTO-(C5)		
Serial number	Indoor: A00098	Outdoor: A00105		
Air-Conditioner Type	Split air conditioner			
Air Distribution	Four 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	Kaiband		
	Model	ZWR60-E51		
	Maker	ZHUHAI KAIBANG MOTOR MANUPACTURING 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)**	2110mm x195mm x 23.2mm		
	Type	Hydrophilic		
Condenser	**Volume(mm)**	994mm x 756 mm x 36.4mm		
	Type	Hydrophilic		
Refrigerant	**Type: R32**	1700g		
Dimensions	Indoor(mm)	Width:840	Depth :840	Height :245
	Outdoor(mm)	Width :910	Depth :378	Height :804

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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)	230.0
Frequency (Hz)	60
Current (A)	11.92
Power Consumption (W)	1933
Power factor	97.6%
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)	101040
Indoor cooling capacity (Btu/h)	24498
Sensible cooling capacity(Btu/h)	22150
Latent cooling capacity (dehumidifying capacity) (Btu/h)	2348
Static pressure(Pa)	0
Volume flow rate of air(m3/hr)	1719
Cooling capacity (Btu/h)	24498
EER(Btu/h)/W	12.66

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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)	4.493
Power Consumption (W)	694
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)	101310
Indoor cooling capacity (W)	3567
Sensible cooling capacity (W)	3484
Latent cooling capacity (dehumidifying capacity) (W)	84
Static pressure(Pa)	0
Volume flow rate of air(m3/hr)	1593
Cooling capacity (W)	3567
Cooling capacity (Btu/h)	12170
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)	14.6
Power Consumption (W)	2366
Power factor	97.6%
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)	101750
Indoor cooling capacity (Btu/h)	22550
Sensible cooling capacity(Btu/h)	21911
Latent cooling capacity (dehumidifying capacity) (Btu/h)	639
Static pressure(Pa)	0
Volume flow rate of air(m3/hr)	1700
Cooling capacity (Btu/h)	22550
EER(Btu/h)/W	9.53

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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)	10.06
Power Consumption (W)	2195
Power factor	95.8%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	20.00
Wet bulb temperature, indoor (℃)	15.00
Dry bulb temperature, outdoor (℃)	7.00
Wet bulb temperature, outdoor (℃)	6.00
Barometer (Pa)	100860
Indoor heating capacity (W)	8337
Sensible heating g capacity (W)	8337
Latent heating capacity (dehumidifying capacity) (W)	0
Static pressure(Pa)	0
Volume flow rate of air(m3/hr)	1865
heating capacity W	8278
heating capacity (Btu/h)	28445
COP (Btu/h)/W	12.95

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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	**24000**	**24498**	**2.1%**	**>=22800**	Pass
Cooling power input, W	**1930**	**1933**	**0.2%**	**<=2026**	Pass
EER, Btu/W ·h	**12.4**	**12.66**	**2.1%**	**>=11.80**	Pass
Cooling capacity test (for condition T1- Half load capacity)					
Cooling capacity, Btu/h	**12000**	**12170**	**1.4%**	**>=11400**	Pass
Cooling power input, W	**700**	**694**	**-0.9%**	**<=735**	Pass
EER, Btu/W ·h	**17.14**	**17.53**	**2.2%**	**>=16.79**	Pass
Cooling capacity test (for condition T3)					
Cooling capacity, Btu/h	**22000**	**22550**	**2.5%**	**>=20900**	Pass
Cooling power input, W	**2390**	**2366**	**-1.0%**	**<=2509**	Pass
EER, Btu/W ·h	**9.20**	**9.53**	**3.6%**	**>=8. 30**	Pass
Heating capacity					
Heating capacity, W	**8000**	**8337**	**4.2%**	**>=7600**	Pass
Heating power input,	**2170**	**2195**	**1.2%**	**<=2278**	Pass
COP, WW	**3.7**	**3.79**	**2.4%**	**>=3.51**	Pass
CSEC (Kwh/Y):		5782			
Energy class: (base on rated EER at T1)		B			
SEER class		B			
SEER		15.1			

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

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