Please scan to verify the report

№：CAC20250200004

TEST REPORT

NAMEOF SAMPLE: Air Conditioner

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

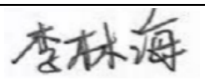
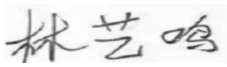
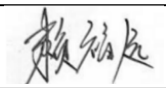
CLASSIFICATION OF TEST: Commission Test

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-36CHRH/DVT-(C5) 220-240 V~ 60Hz		
Date of receipt of test item	2025-02-10	Date(s) of test	2025-02-10
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.....	2025-02-11		

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.

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

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） : 2650 Cooling（T3） : 3315 Heating: 2776
	Rated capacity (Btu/h)	Cooling（T1） : 33000 Cooling（T3） : 29000 Heating: 36000
	Rated current (A)	Cooling（T1） : 12.1 Cooling（T3） : 15.15 Heating: 12.70
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

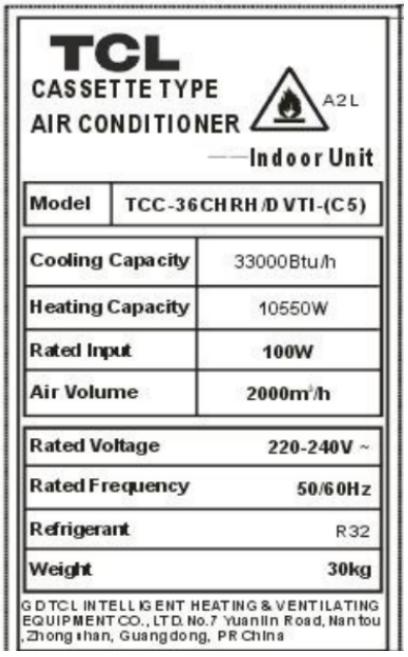
SPLIT TYPE AIR CONDITIONER

A2L

——Outdoor Unit

Model	TCC-36HH/DVTO-(C5)	
Rated Volt		220-240V ~
Rated Frequency		50/60Hz
Rated Power Input(IEC60335)		4600W
Rated Current(IEC60335)		20A
Maximum allowable pressure		4.5MPa
Operating Pressure	Discharge	4.5MPa
	Suction	1.9MPa
Weight		54kg
Water Proof Protection		IPX4
Refrigerant/Charge		R32/2.0kg

GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO.,LTD.No.7 Yuanlin Road,Nantou ,Zhongshan, Guangdong, PR China



TCL

CASSETTE TYPE AIR CONDITIONER

A2L

——Indoor Unit

Model	TCC-36CHRH/DVTI-(C5)
Cooling Capacity	33000Btu/h
Heating Capacity	10550W
Rated Input	100W
Air Volume	2000m³/h
Rated Voltage	220-240V ~
Rated Frequency	50/60Hz
Refrigerant	R32
Weight	30kg

GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO., LTD. No.7 Yuanlin Road, Nantou ,Zhongshan, Guangdong, PR 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	33805
	Air conditioner power consumption in W	2678
	Energy Efficiency Ratio(EER) in Btu/h/w	12.62
COOLING CAPACITY(T1-Half load capacity)	Total cooling capacity in Btu/h	16121
	Air conditioner power consumption in W	952
	Energy Efficiency Ratio(EER) in Btu/h/w	16.93
COOLING CAPACITY(T3)	Total cooling capacity in Btu/h	29542
	Air conditioner power consumption in W	3331
	Energy Efficiency Ratio(EER) in Btu/h/w	8.87
HEATING CAPACITY	Total cooling capacity in w	10822
	Air conditioner power consumption in W	2764
	Energy Efficiency Ratio(COP) in w/w	3.92

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-36CHRH/DVT-(C5)		
	Indoor (split system only)	TCC-36CHRH/DVTI-(C5)		
	Outdoor (split system only)	TCC-36HH/DVTO-(C5)		
Serial number	Indoor: A00098	Outdoor: A00110		
Air-Conditioner Type	Split air conditioner			
Air Distribution	Four way			
Type of system	R32	Mass of Refrigerant (kg)	2.0	
Heat transfer	Cooling mode and heating mode			
Voltage(V)	230			
Phase	1ph			
Hz	60			
Compressor	**Type**	Rotary		
	Brand	Highly		
	Model Name	WHP12900GSKPC8LT8C		
	Maker	Shanghai Highly Electrical Appliances Co., Ltd.		
	Country of Origin	China		
Indoor Fan motor	**Type**	DC motor		
	Brand	Li-feng		
	Model	RD100HD1		
	Maker	Jiangmen LT Motor Co.,Ltd.		
	Country of Origin	China		
Outdoor Fan motor	**Type**	DC motor		
	Brand	Broad-ocean		
	Model	ZW511B500077		
	Maker	ZHONGSHAN BROAD-OCEAN MOTOR CO..LTD		
	Country of Origin	China		
Evaporator	**Volume(mm)**	2110mm x 252 mm x 38.1mm		
	Type	Hydrophilic		
Condenser	**Volume(mm)**	990mm x 756 mm x 38.1mm		
	Type	Hydrophilic		
Refrigerant	**Type: R32**	2000g		
Dimensions	Indoor(mm)	Width:840	Depth :840	Height :290
	Outdoor(mm)	Width :910	Depth :378	Height :804

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

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)	11.804
Power Consumption (W)	2678
Power factor	98.88%
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)	102
Indoor cooling capacity (Btu/h)	33796
Sensible cooling capacity(Btu/h)	29752
Latent cooling capacity (dehumidifying capacity) (Btu/h)	4043
Static pressure(Pa)	37
Volume flow rate of air(m3/hr)	2137
Cooling capacity (Btu/h)	33796
EER(Btu/h)/W	12.62

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

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)	6.21
Power Consumption (W)	952
Power factor	66.3%
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)	102
Indoor cooling capacity (W)	16122
Sensible cooling capacity (W)	15668
Latent cooling capacity (dehumidifying capacity) (W)	453
Static pressure(Pa)	37
Volume flow rate of air(m3/hr)	1890
Cooling capacity (W)	4725
Cooling capacity (Btu/h)	16122
EER(Btu/h)/W	16.94

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

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)	14.68
Power Consumption (W)	3331
Power factor	99.08%
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)	102
Indoor cooling capacity (Btu/h)	29534
Sensible cooling capacity(Btu/h)	29534
Latent cooling capacity (dehumidifying capacity) (Btu/h)	0
Static pressure(Pa)	37
Volume flow rate of air(m3/hr)	2337
Cooling capacity (Btu/h)	29534
EER(Btu/h)/W	8.867

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

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)	12.2
Power Consumption (W)	2763
Power factor	98.76%
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)	102
Indoor heating capacity (W)	10822
Sensible heating g capacity (W)	10822
Latent heating capacity (dehumidifying capacity) (W)	0
Static pressure(Pa)	37
Volume flow rate of air(m3/hr)	2422
heating capacity W	10822
heating capacity (Btu/h)	36924
COP (Btu/h)/W	3.916

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

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

Conclusion

Cooling capacity test (for condition T1- Full load capacity)					
Mode	**Rated**	**Tested**	**Verifying**	**Required EER**	Verdict
Cooling capacity, Btu/h	**33000**	**33805**	**2.4%**	**>=31350**	Pass
Cooling power input, W	**2650**	**2678**	**1.05%**	**<=2782**	Pass
EER, Btu/W ·h	**12.45**	**12.62**	**1.19%**	**>=11.82**	Pass
Cooling capacity test (for condition T1- Half load capacity)					
Cooling capacity, Btu/h	/	/	/	/	/
Cooling power input, W	/	/	/	/	/
EER, Btu/W ·h	/	/	/	/	/
Cooling capacity test (for condition T3)					
Cooling capacity, Btu/h	**29000**	**29542**	**1.7%**	**>=27550**	Pass
Cooling power input, W	**3315**	**3331**	**0.26%**	**<=3480**	Pass
EER, Btu/W ·h	**8.75**	**8.87**	**1.3%**	**>=8. 31**	Pass
Heating capacity					
Heating capacity, W	**10550**	**10822**	**2.5%**	**>=10020**	Pass
Heating power input,	**2776**	**2764**	**-0.5%**	**<=2914**	Pass
COP, WW	**3.8**	**3.92**	**3.15%**	**>=3.61**	Pass
CSEC (Kwh/Y):		7155			
Energy class: (base on rated EER at T1)		B			
SEER class		B			
SEER		15.0			

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

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

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
测试中心
TEST CENTER
TCL AIR CONDITIONER (ZHONGSHAN) CO., LTD.