

Page **1** of **16** 

测试中心

№: CAC20250200005

## **TEST REPORT**

NAMEOF SAMPLE:	Air Conditioner		
APPLICANT:	GD TCL Intelligent Heating & Ventilating Equipment Co., Ltd.		
CLASSIFICATION	N OF Commission Test		

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

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

Page 2 of 16 Report No.: CAC20250200005

### TEST REPORT The rating and performance tests for Air-conditioner Applicant Name.....: GD TCL Intelligent Heating & Ventilating Equipment Co., Ltd. NO.7 Yuanlin Road, Nantou Town, Zhongshan City, Guangdong P.R. Address .....: 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..... Air conditioner Trademark..... **TCL** Model / type reference..... TCC-48D1HWH/DVT-(C5) 220-240 V~ 60Hz Rating and characteristics..... Date of receipt of test item 2025-02-11 2025-02-11 Date(s) of test 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

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2025-02-12

Date of issue.....

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测试中心 TEST CENTER

CONDITIONER (ZHONGSHAN)

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Page 3 of 16 Report No.: CAC20250200005

The rating and performance tests for  Air conditioner		
Test case verdicts	I	
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.

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Brief	ief 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) : 3680 Cooling (T3) : 4730		
		Heating: 3750		
	Rated capacity (Btu/h)	Cooling (T1) : 46000 Cooling (T3) : 42600		
		Heating: 51200		
	Rated current (A)	Cooling (T1) :16.73 Cooling (T3) :21.5		
		Heating: 17.0		
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		
	(A/C Configuration— Air Distribution)	⊠ Single-duct		
		Double ducts		
	The number of the indeer units if multi-onlit type	☐ Non Ducted		
5	The number of the indoor units if multi-split type	Mall manneted		
6	Type of the indoor unit if split type	<ul><li>☐ Wall-mounted</li><li>☐ Free-standing</li></ul>		
		☐ Free-standing ☐ Ceiling-mounted		
		☐ Other type		
7	Type of outdoor unit if split type	□ Strict type     □ Free-standing		
·		Other type		
9	Supplementary heating element	☐ Yes		
	Cappennentally meaning element	⊠ 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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		第一年中山) 第一年中山		
		户 测风中心		
		TEST CENTER		
		ONDITIONER (ZHONGSHAN		

Page 5 of 16 Report No.: CAC20250200005

### Photo of nameplate:

## TCL DUCT TYPE AIR CONDITIONER

—Indoor Unit

Model TCC-48D1HWH/DVTI-(C		
Cooling Capacity	47000Btu/h	
Heating Capacity	15000W	
Rated Input	560W	
Air Volume	2900m³/h	
Rated Voltage	220-240V ~	

-	
Rated Frequency	60Hz
Refrigerant	R32
Weight	66kg

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

# TCL SPLIT TYPE AIR CONDITIONER



Outdoor Unit

Model	TCC-48HH/DVTO-(C5)		
Rated Volt		220-240V ~	
Rated Fred	luency	60Hz	
Rated Powe	r Input(IEC60335)	5500W	
Rated Current(IEC60335)		25.0A	
Maximum allowable pressure		4.5 <b>MP</b> a	
Operating Pressure	Discharge	4.5 <b>MP</b> a	
	Suction	1.9 <b>MP</b> a	
Weight		90kg	
Water Proof Protection		IPX4	
Refrigerant/Charge		R32/4.0kg	

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



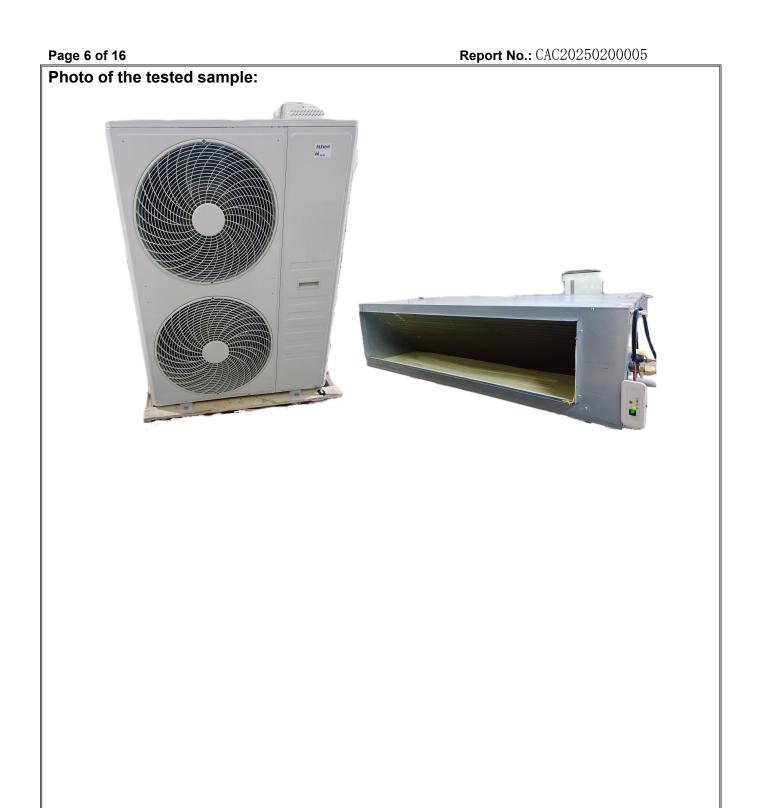




Photo of compressor:





Page 8 of 16 Report No.: CAC20250200005

Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h  Air conditioner power consumption  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h	Btu/h/w 12.76 23699 on in W 1370 Btu/h/w 17.3 43694
COOLING CAPACITY(T1- Full load capacity)  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h  Air conditioner power consumption  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h	on in W 3742  Btu/h/w 12.76  23699  on in W 1370  Btu/h/w 17.3  43694
Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu/h  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h	Btu/h/w 12.76 23699 on in W 1370 Btu/h/w 17.3 43694
Total cooling capacity in Btu/h  COOLING CAPACITY(T1- Half load capacity)  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h	23699 on in W 1370 Btu/h/w 17.3 43694
COOLING CAPACITY(T1-Half load capacity)  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h	on in W 1370  Btu/h/w 17.3  43694
Half load capacity)  Air conditioner power consumption  Energy Efficiency Ratio(EER) in Btu  Total cooling capacity in Btu/h	Btu/h/w 17.3 43694
Total cooling capacity in Btu/h	43694
COOLING CAPACITY(T3) Air conditioner power consumption	on in W 4565
	1999
Energy Efficiency Ratio(EER) in Btu	Btu/h/w 9.55
Total cooling capacity in w	15420
HEATING CAPACITY  Air conditioner power consumption	on in W 3761
Energy Efficiency Ratio(COP) in w/v	w/w 4.1



Page 9 of 16 Report No.: CAC20250200005

1- Sample Information

1- Sample Information Brand	TCL						
Didiid	System (if application) TCC-48D1HWH/DVT-(C5)		)				
Model No.			TCC-48D1HWH/DVTI-(C5)		<u>*                                    </u>		
Model No.	Outdoor (split system TCC-48HH/DVTO-(C5) only)			,			
Serial number	Indoor: A00099			Outo	door: A00106		
Air-Conditioner Type	Split air conditioner		I				
Air Distribution	Four way						
Type of system	R32 I	Mass c	f Refr	igeran	t (kg)	4.0	
Heat transfer	Cooling mode and heating mode						
Voltage(V)	230						
Phase	1ph						
Hz	60						
	Type Rotary						
	Brand	HI	GHLY				
Compressor	Model Name	G1	H420	SKPC	8DQ		
·	Maker	SHANGHAI HIGHLY ELEC APPLIANCES CO.,LTD		ELECTRICAL			
	Country of Origin China						
	Туре	DC motor					
	Brand	Broad-ocean					
Indoor Fan motor	Model	ZW511B500140L					
	Maker		ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD.				
	Country of Origin Ch		China				
			DC motor				
	Brand	Wo	Wolong				
Outdoor Fan motor	Model	WZD-A02090L-01TL					
	Maker	Wo	ong E	lectric	(Ji nan) Motor	Co.,Ltd	
	Country of Origin	Ch	ina				
Evaporator	Volume(mm)	12	15mm	mm x 462 mm x 50.8mm			
	Туре	Ну	droph	ilic			
Condenser	<b>Volume(mm)</b> 1302mm x 896 mm x 54.6mm		l				
	Туре	Ну	droph	ilic			
Refrigerant	Type: R32	40	00g				
Dimensions	Indoor(mm)	Wi	dth:14	00	Depth :380	Height :800	
סוווופוואוטווא	Outdoor(mm)	Wi	dth:9	50	Depth :340	Height :1330	



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)	17.96
Power Consumption (W)	3742
Power factor	95%
Fan speed settings	super speed
Dry bulb temperature, indoor ( $^{\circ}\!$	27.00
Wet bulb temperature, indoor ( ${}^{\circ}\!$	19.00
Dry bulb temperature, outdoor ( $^{\circ}\!\mathbb{C}$ )	35.00
Wet bulb temperature, outdoor ( $^{\circ}\!$	24.00
Barometer (Pa)	101680
Indoor cooling capacity (Btu/h)	47758
Sensible cooling capacity(Btu/h)	39009
Latent cooling capacity (dehumidifying capacity) (Btu/h)	2564
Static pressure(Pa)	50
Volume flow rate of air(m3/hr)	2421
Cooling capacity (Btu/h)	47758
EER(Btu/h)/W	12.76



Test Duration(min)	90
Power supplied	220-240V
Applied voltage (V)	230.0
Frequency (Hz)	60
Current (A)	6.68
Power Consumption (W)	1370
Power factor	94%
Fan speed settings	super speed
Dry bulb temperature, indoor ( $^{\circ}\!\mathbb{C}$ )	27.00
Wet bulb temperature, indoor ( ${\mathbb C}$ )	19.00
Dry bulb temperature, outdoor (℃)	35.00
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	101260
Indoor cooling capacity (W)	6946
Sensible cooling capacity (W)	6777
Latent cooling capacity (dehumidifying capacity) (W)	170
Static pressure(Pa)	50
Volume flow rate of air(m3/hr)	2063
Cooling capacity (W)	6946
Cooling capacity (Btu/h)	23700
EER(Btu/h)/W	17.3



2.3 Test record of cooling capacity test (T3)

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)	21.84
Power Consumption (W)	4565
Power factor	96%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	29.00
Wet bulb temperature, indoor ( $^{\circ}\!\mathbb{C}$ )	19.00
Dry bulb temperature, outdoor ( $^{\circ}\!$	46.00
Wet bulb temperature, outdoor ( $^{\circ}\!$	24.00
Barometer (Pa)	101860
Indoor cooling capacity (Btu/h)	43694
Sensible cooling capacity(Btu/h)	42565
Latent cooling capacity (dehumidifying capacity) (Btu/h)	1126
Static pressure(Pa)	50
Volume flow rate of air(m3/hr)	2785
Cooling capacity (Btu/h)	43694
EER(Btu/h)/W	9.55



# 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)	18.1
Power Consumption (W)	3761
Power factor	96%
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)	15420
Sensible heating g capacity (W)	15420
Latent heating capacity (dehumidifying capacity) (W)	0
Static pressure(Pa)	50
Volume flow rate of air(m3/hr)	3055
heating capacity W	15420
heating capacity (Btu/h)	52613
COP (Btu/h)/W	13.99



# 2.5 Functional Performance – Cooling&Heating

Operability at Maximum cooling conditions at 52°C	☐ Tested ☐ Declared	Result:	<ul><li>☑ Pass</li><li>☐ Fail</li><li>☐ Non Relevant</li></ul>
Operability at Minimum cooling conditions	☐ Tested ☐ Declared		☐ Pass ☐ Fail ☑ Non Relevant
Freeze up air blockage and freeze-up drip	☐ Tested ☐ Declared		<ul><li>☑ Pass</li><li>☐ Fail</li><li>☐ Non Relevant</li></ul>
Condensate control and enclosure sweat performance	☐ Tested ☐ Declared		<ul><li>☑ Pass</li><li>☐ Fail</li><li>☐ Non Relevant</li></ul>
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		<ul><li>☑ Pass</li><li>☐ Fail</li><li>☐ Non Relevant</li></ul>

# 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	C	
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	



## Conclusion

Cooling	capacity test	(for conditi	on T1- Full lo	oad capacity)	
Mode	Rated	Tested	Verifyi ng	Required EER	Verdict
Cooling capacity, Btu/h	46000	47758	3.8%	>=43700	Pass
Cooling power input, W	3680	3742	1.7%	<=3864	Pass
EER, Btu/W ·h	12.5	12.76	2.1%	>=11.88	Pass
Cooling	capacity test	(for condition	on T1- Half lo	oad capacity)	
Cooling capacity, Btu/h	23000	23700	3.04%	>=21850	Pass
Cooling power input, W	1350	1370	1.5%	<=1418	Pass
EER, Btu/W ·h	17.0	17.3	1.8%	>=16.15	Pass
	Cooling c	apacity test	(for conditio	n T3)	
Cooling capacity, Btu/h	42600	43694	2.6%	>=40470	Pass
Cooling power input, W	4730	4565	-3.5%	<=4967	Pass
EER, Btu/W ·h	9.0	9.55	6.1%	>=8. 55	Pass
	l	Heating capa	acity		_
Heating capacity, W	15000	15420	2.8%	>=14250	Pass
Heating power input,	3750	3761	0.3%	<=3938	Pass
COP, WW	4.0	4.1	2.5%	>=3.80	Pass
CSEC (Kwh/Y):				9936	
Energy class: (base or	rated EER			В	
at T1)					
SEER class				В	
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



# **Nergy Rating Classification**

Page 16 of 16 Report No.: PMC20190927001

			Ratio (SEER) Classification
Bar color	Energy class		SEER limits (Btu/W.h)
Dark green	1	А	SEER ≥ 18.0
Green	ب	В	18.0> SEER ≥ 15.0
Light green	ح	С	15.0> SEER ≥ 12.5
Yellow	7	D	12.5> SEER ≥ 10.0
Orange	ھ	Е	10.0> SEER ≥ 9.0
Red	و	F	9.0> SEER ≥ 8.0
Dark Red	ز	G	8.0> SEER

