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Nº: PMCK20250702001

### **TEST REPORT**

NAMEOF SAMPLE:	Air Conditioner	
APPLICANT:	SKM AIR CONDITIONING CO.	
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 .....: SKM AIR CONDITIONING CO. 4th Street, Ath Thugbah District, AL KHOBAR, Saudi Arabia. Address .....: SKM AIR CONDITIONING CO. Manufacturer .....: 4th Street, Ath Thuqbah District, AL KHOBAR, Saudi Arabia. Address .....: TCL Air Conditioner (Zhongshan) Co., Ltd. Factory .....: Product name ..... Air conditioner Trademark ..... SKM AIR CONDITIONING EQUIPMENT Model / type reference ..... MSKMP-18CWTSD0 230V~ 60Hz Rating and characteristics. ..... Date of receipt of test item 2024-12-23 Date(s) of test 2024-12-23 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..... 2024-12-24

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The rating and performance tests for		
Air conditioner		
Test case verdicts	1	
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.

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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) : 1500 Cooling (T3) : 1894
		Heating: /
	Rated capacity (Btu/h)	Cooling (T1) : 18000 Cooling (T3) : 16100
		Heating: /
	Rated current (A)	Cooling (T1) : 6.7 Cooling (T3) : 8.5
		Heating: /
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
		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	
		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
		. ,

#### Photo of nameplate:



SPLIT TYPE AIR CONDITIONER جهاز تكييف هواء حائط

INDOOR UNIT مكيف الهواء الداخل

مكيف الهواء الداحلي			
Model MSKMP-18CWTSD0			
	Cooling(T1) تبرید( تي ۱)		
Capacity القدرة	180 00Btu/h (5.28kW)		
Current التيار	6.7A		
Rated Current (IEC60335) تيار القدرة المقدرة	11.8A		
Power Input مدخل الطاقة	1500W		
Rated Power Input (IEC60335) مدخل القدرة المقدرة	2613W		
EER معدل كفاءة الطاقة للتبريد	12.00(Btu/h/W)		
Indoor Air Volume حجم تدفق الهواء	1050m³/h		
Maximum allowable pressure الحد الأقصىي للضغط	4.5MPa		
Operating Discharge Pressure ضغط الإطلاق	4.5MPa		
Suction الضغط ضغط الغاز لضاغط الاستنشاق	1.9MPa		
Noise الضبيح	50dB(A)		
Weight الوزن	13kg		
Rated Voltage/Frequency التردد /الجهد الكهرباني	230V~ / 60Hz		
FACTORY ADDRESS التردين	No.59, Nantou Road West , Nantou, Zhongshan , Guangdong , China		

Made in China منع <u>شا</u> الصين SKM Air Conditioning Co. شركة اس كى ام للتكييف

4th Street, Ath Thuqbah District Al Khobar, K.S.A. شارع الرابع، حي الثكبة الخبر، المملكة العربية السعودية



# SPLIT TYPE AIR CONDITIONER جهاز تکییف هواء حانط

OUTDOOR UNIT مكيف الهواء الخارجي

منیت انهوام انتارجي				
Model مودیل		MSKMP-18CWTSD0		
		(T1) Cooling تبرید( تی ۱)	Cooling(T3) تبرید(ت <i>ي</i> ۳)	
Capacity القدرة		18000Btu/h (5.28kW)	16100Btu/h (4.71kW)	
Current التيار		6.7A	8.5A	
Rated Curre قدرة المقدرة	ent (IEC60335) تيار اا	11.8A	11.8A	
Power Inpu مدخل الطاقة		1500W	1894W	
Rated Power لقدرة المقدرة	Input (IEC60335) مدخل اا	2613W 2613W		
EER معدل كفاءة الطاقة للتبريد		12.00(Btu/h/W) 8.50(Btu/h/\		
Maximum allowable pressure الحد الأقصىي للضغط		4.5MPa		
Operating Pressure	Discharge ضغط الإطلاق	4.5MPa		
	Suction ضغط الاستنشاق	1.9MPa		
Noise الضجيج		57dB(A)		
Weight الوزن	34kg		4kg	
Rated Voltage/Frequency التردد/الجهد الكهرباني		230V~ / 60Hz		
Refrigerant/Charge غاز التبريد / الكمية		R410A/0.830kg		
Outdoor Unit Water Proof Protection IPX4 درجة الحماية من الماء لمكيف الهواء الخارجي £Xأي بي				
FACTORY ADDRESS No.59, Nantou Road West , Nantou				

Zhongshan , Guangdong , China

Made in China

صنع ﷺ الصين

SKM Air Conditioning Co.
شركة اس كي ام للتكبيف

4th Street, Ath Thuqbah District Al Khobar, K.S.A. شارع الرابع، حي الثكبة الخبر، المملكة العربية السعودية

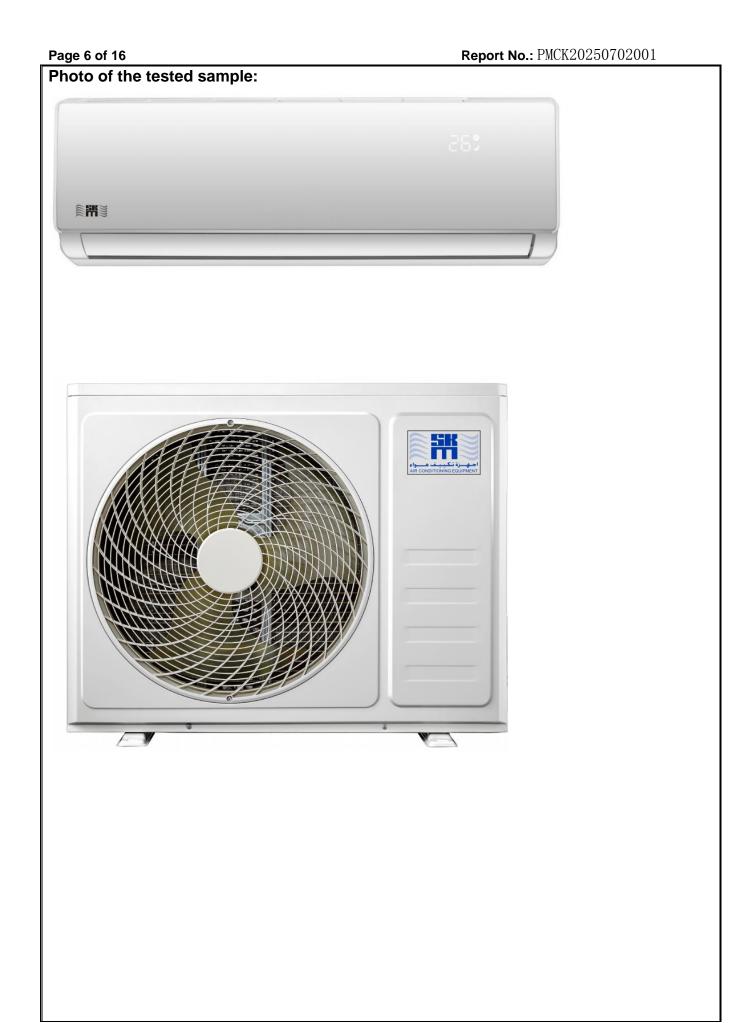






الترددعنوان المصنع







Summary		
Test method		Enthalpy test room
	Total cooling capacity in Btu/h	18203
COOLING CAPACITY(T1- Full load capacity)	Air conditioner power consumption in W	1475
	Energy Efficiency Ratio(EER) in Btu/h/w	12.341
	Total cooling capacity in Btu/h	/
COOLING CAPACITY(T1-Half load capacity)	Air conditioner power consumption in W	/
	Energy Efficiency Ratio(EER) in Btu/h/w	/
	Total cooling capacity in Btu/h	16163
COOLING CAPACITY(T3)	Air conditioner power consumption in W	1789
	Energy Efficiency Ratio(EER) in Btu/h/w	9.042
	Total cooling capacity in w	/
HEATING CAPACITY	Air conditioner power consumption in W	/
	Energy Efficiency Ratio(COP) in w/w	1
Гest Result:		
<b>坚</b> Pass		□ Fail
Note: If failed, it shall be ind	icated which part it was fail in.	

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1- Sample Information

Brand	SKM AIR CONDITIONING EQUIPMENT					
Diana	System (if application)					
Model No.	Indoor (split system only)		/			
Widdel No.	Outdoor (split only)	system				
Serial number	Indoor: G440N0200100I6	180001	Outdoor: G440W0200100l6180001			
Air-Conditioner Type	Split air conditione	er	,			
Air Distribution	Four way					
Type of system	R410A	Mass	of Refr	igeran	t (kg)	0.830
Heat transfer	Cooling only					
Voltage(V)	230					
Phase	1ph					
Hz	60					
	Туре	H	Herme	etic m	otor-compres	sor
	Brand	ŀ	lighly			
Compressor	Model Name	A	SL16	0DG-0	C7EU6	
	Maker		Shanghai Highly Electrical Appliances Co., Ltd.			Appliances Co.,
	Country of Origin	n (	China			
	Туре		DC motor			
	Brand BROAD-OCEAN					
Indoor Fan motor	<b>Model</b> 22001–000240					
	Maker	2	ZHONGSHAN BROAD-OCEAN MOTOR Co., LTD.			
	Country of Origin	1 (	China			
	Туре		OC mo	tor		
	Brand	Е	ROAD-	OCEAN		
Outdoor Fan motor	Model	2	2001-	000493	3	
	Maker	ZH	ZHONGSHAN BROAD-OCEAN MOTOR Co., LTD.			R Co., LTD.
	Country of Origin	1 (	China			
Evaporator	Volume(mm)	7	761mm x 336mm x 25.4 mm			
	Туре		Hydrophilic & Louver Fin; Innergroover tube type			nergroover tube
Condenser	Volume(mm)	7	776mm x 566 mm x 23.2 mm		n	
	Туре		Louver or Corrugated Fin; Innergroover tube type			; Innergroover
Refrigerant	Type: R410A	8	30g			
Dimensions	Indoor(mm)	V	Width:1010 Depth:315 Heigh		Height :220	
	Outdoor(mm)	V	Vidth:	853	Depth :349	Height :602

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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)	6.68
Power Consumption (W)	1475
Power factor	98.5%
Fan speed settings	super speed
Dry bulb temperature, indoor ( $^{\circ}$ C)	27.00
Wet bulb temperature, indoor ( ${}^{\circ}\!$	19.00
Dry bulb temperature, outdoor ( $^{\circ}\!$	35.00
Wet bulb temperature, outdoor ( $^{\circ}\!$	24.00
Barometer (Pa)	100.85
Indoor cooling capacity (Btu/h)	18203
Sensible cooling capacity(Btu/h)	15071
Latent cooling capacity (dehumidifying capacity) (Btu/h)	3132
Static pressure(Pa)	292.80
Volume flow rate of air(m3/hr)	1039
Cooling capacity (Btu/h)	18203
EER(Btu/h)/W	12.341

### 2.2 Cooling capacity test (T1-Half load capacity)

Test Duration(min)	/
Power supplied	/
Applied voltage (V)	/
Frequency (Hz)	/
Current (A)	/
Power Consumption (W)	/
Power factor	/
Fan speed settings	/
Dry bulb temperature, indoor (°C)	/
Wet bulb temperature, indoor (°C)	/
Dry bulb temperature, outdoor (℃)	/
Wet bulb temperature, outdoor (°C)	/
Barometer (Pa)	/
Indoor cooling capacity (W)	/
Sensible cooling capacity (W)	/
Latent cooling capacity (dehumidifying capacity) (W)	1
Static pressure(Pa)	/
Volume flow rate of air(m3/hr)	/
Cooling capacity (W)	/
Cooling capacity (Btu/h)	/
EER(Btu/h)/W	/

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)	8.02
Power Consumption (W)	1789
Power factor	98.9%
Fan speed settings	super speed
Dry bulb temperature, indoor (℃)	29.00
Wet bulb temperature, indoor (°C)	19.00
Dry bulb temperature, outdoor (℃)	46.00
Wet bulb temperature, outdoor (℃)	24.00
Barometer (Pa)	100.88
Indoor cooling capacity (Btu/h)	16163
Sensible cooling capacity(Btu/h)	16163
Latent cooling capacity (dehumidifying capacity) (Btu/h)	0
Static pressure(Pa)	272.87
Volume flow rate of air(m3/hr)	1159
Cooling capacity (Btu/h)	16163
EER(Btu/h)/W	9.042

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## 2.4 Test record of heating capacity test (H1)

Test Duration(min)	/
Power supplied	/
Applied voltage (V)	/
Frequency (Hz)	/
Current (A)	/
Power Consumption (W)	/
Power factor	/
Fan speed settings	/
Dry bulb temperature, indoor (℃)	/
Wet bulb temperature, indoor (℃)	/
Dry bulb temperature, outdoor (℃)	/
Wet bulb temperature, outdoor ( $^{\circ}\!\!\mathbb{C}$ )	/
Barometer (Pa)	/
Indoor heating capacity (W)	/
Sensible heating g capacity (W)	/
Latent heating capacity (dehumidifying capacity) (W)	/
Static pressure(Pa)	/
Volume flow rate of air(m3/hr)	/
heating capacity W	/
heating capacity (Btu/h)	/
COP (Btu/h)/W	1

# 2.5 Functional Performance – Cooling&Heating

Operability at Maximum cooling conditions at		Result:	□ Pass     □
52℃	Declared		☐ Fail
			☐ Non Relevant

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rage 14 or 10	ricport ito	1 MCH2020010200
Operability at Minimum cooling conditions	<ul><li>☑ Tested</li><li>☐ Declared</li></ul>	☐ Pass ☐ Fail ☑ Non Relevant
Freeze up air blockage and freeze-up drip	<ul><li>☑ Tested</li><li>☐ Declared</li></ul>	<ul><li>☑ Pass</li><li>☐ Fail</li><li>☐ Non Relevant</li></ul>
Condensate control and enclosure sweat performance	<ul><li>☑ Tested</li><li>☐ Declared</li></ul>	<ul><li>☑ Pass</li><li>☐ Fail</li><li>☐ Non Relevant</li></ul>
Operability at Maximum heating conditions	<ul><li>☑ Tested</li><li>☐ Declared</li></ul>	☐ Pass ☐ Fail ☑ Non Relevant
Operability at Minimum heating conditions	<ul><li>☑ Tested</li><li>☐ Declared</li></ul>	☐ Pass ☐ Fail ☑ Non Relevant
Verification of automatic defrost	<ul><li>☑ Tested</li><li>☐ Declared</li></ul>	☐ Pass ☐ Fail ☑ Non Relevant

## 2.6 Capacity tests at below condition were considered in this report.

Mode	Indoor air		Outdoor a		Test voltage
	Dry bulb	Wet bulb	Dry bulb	Wet bulb	8
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 le	oad capacity)	
Mode	Rated	Tested	Verifyi ng	Required EER	Verdict
Cooling capacity, Btu/h	18000	18203	1.13%	>=17100	Pass
Cooling power input, W	1500	1475	-1.67%	<=1575	Pass
EER, Btu/W ·h	12.00	12.341	2.84%	>=11.80	Pass
Cooling	capacity test	(for condition	on T1- Half l	oad capacity)	
Cooling capacity, Btu/h	1	1	1	1	1
Cooling power input, W	1	1	1	1	1
EER, Btu/W ·h	1	1	1	1	1
	Cooling o	apacity test	(for condition	on T3)	
Cooling capacity, Btu/h	16100	16163	0.39%	>=15295	Pass
Cooling power input, W	1830	1789	-2.24%	<=1922	Pass
EER, Btu/W ·h	8.80	9.042	2.75%	>=8. 50	Pass
		Heating capa	acity		
Heating capacity, W	1	1	1	1	Pass
Heating power input,	1	1	1	1	Pass
COP, WW	1	1	1	1	Pass
CSEC (Kwh/Y):				6270	
Energy class: (base or	n rated EER			D	
at T1)					
SEER class				D	
SEER				10.20	

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**

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Table	o – Seasonai	Energy Efficience	cy Ratio (SEER) Classification
Bar color	Energy class		SEER limits (Btu/W.h)
Dark green	Í	А	SEER ≥ 18.0
reen	ب	В	18.0> SEER ≥ 15.0
ght green	ج	С	15.0> SEER ≥ 12.5
ellow	7	D	12.5> SEER ≥ 10.0
range	ھ	E	10.0> SEER ≥ 9.0
ed	و	F	9.0> SEER ≥ 8.0
ark Red	ز	G	8.0> SEER