

Zhejiang Oulun Electric Co.,Ltd.

TEST REPORT

SCOPE OF WORK

ENERGY EFFICIENCY TESTING - PORTABLE AIR CONDITIONER -[MODEL(S) LIST IN PAGE 2]

REPORT NUMBER

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Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD,
Guangzhou, Guangdong, China

Applicant: Zhejiang Oulun Electric Co.,Ltd.
Address: No. 22 Hengyi Road, Linping District, Hangzhou, 311100,
Zhejiang, P.R.China

Manufacturing site: Zhejiang Oulun Electric Co.,Ltd.
Address: No. 22 Hengyi Road, Linping District, Hangzhou, 311100,
Zhejiang, P.R.China

Testing Location: Same as Testing Laboratory
Address: Same as Testing Laboratory Addresss
Product: Portable air conditioner
Brand Name: EURGEEN
Description: The product covered by this report is a household, indoor
use, cord connected portable air conditioner.

Model(s): OL-BA010D-06CD/D;OL-BA010*-06CD/*
Model Similarity: All models are identical except for the specific model name
and appearance. The first * represents the product
appearance code, which can be any capital letter from A-Z;
the second * represents the product top cover code, which
can be any capital letter from A-Z.

Ratings: 115V, 60Hz
Rated SACC (BTU/h) 6000
Date of receipt of sample(s): 19-Aug-2022
Date Range of Test: 6-Sep-2022
Test standard(s) or criteria(s): ANSI/AHAM PAC-1-2015
10 CFR Part 430 Subpart B, Appendix CC
IEC 62301 Edition 2.0, 2011-01
California Code of Regulations: Title 20, Division 2, Chapter
4, Article 4, § 1605.3. State Standards for Non-Federally-
Regulated Appliances

Conclusion: Refer to page 10.

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Signature: _____

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Photos:

Photo 1 - Front view



Photo 2 - Rear view



Photo 3 - Left view



Photo 4 - Right view



Photo 5 - Top view

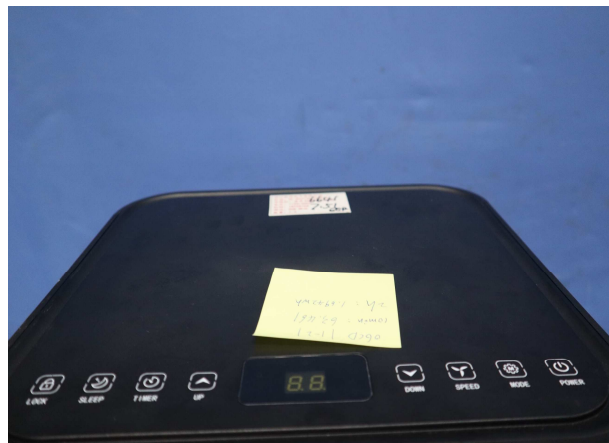


Photo 6 - Nameplate(s)

PORTABLE AIR CONDITIONER

Model : OL-BA010D-06CD/D

Power Supply	115V~ 60Hz
ASHRAE Cooling Capacity	10000Btu/h
SACC	6000Btu/h
CEER	6.7Btu/hr.W
Rated Input Current	7.8A
Refrigerant /Charge	R32 / 6.0oz
Low Side Pressure	260psi
High Side Pressure	550psi
BCSC	15A
Compressor Input	RLA:6.15A/LRA:36A
Fan Motor Power	0.18HP
Date Code	
Serial No.	

ISO 817
A2L

WARNING: Appliance shall be installed, operated and stored in a room with a floor area larger than 4 m².

If the power cord is damaged,do not attempt to repair.
 It must be replaced with a new power cord supplied by the
 unit manufacturer in order to avoid a hazard.
 Si le cordon d'alimentation est endommagé, n'essayez pas de
 réparer.Il doit être remplacé par un nouveau cordon d'aliment
 ation fourni par le fabricant de l'appareil afin d'éviter un danger.

CONFORMS TO UL STD.60335-1&60335-2-40
 CERTIFIED TO CSA STD.60335-1&60335-2-40

Zhejiang Oulun Electric Co.,Ltd.

Intertek
5006106

Product Details

Item	Data
Model Number of Unit Under Tested	OL-BA010D-06CD/D
Serial Number	NA
Condition of Sample(s)	Prototype
Product Type	Single-duct
Refrigerant	R32
Standby and Off	Standby mode only

Critical Components

Name	Manufacturer / trademark	Type / model	Technical data
Compressor	GUANGDONG MEIZHI COMPRESSOR LTD(GMCC)	KSN78E11VBZC1	115V~ 60Hz R32
Capacitor of Compressor	Ningguo Huili Electri Co., Ltd	CBB65	250VAC 50μF
Alternative	Various	Various	250VAC 50μF
Fan motor	Zhejiang Oulun Electric Co.,Ltd.	YSK95-65-4C	110-120V~ 60Hz
Capacitor of fan motor	SHENG YE ELECTRIC CO LTD	C61-P2	250VAC 15μF
Alternative	Various	Various	250VAC 15μF

NOTE

"Various" means any type, from any manufacturer that complies with the "Technical data and securement means" can be used.

Cooling Capacity Test

Item	Unit	Sample 1	Sample 2	Sample 3
Barometric pressure	PSIA	14.595	14.572	-
Fan speed	-	High	High	-
Applied voltage	V	115.2	115.2	-
Frequency	Hz	60.06	60.06	-
Current input to test unit	A	7.73	7.63	-
Power input to test unit	W	881.0	869.0	-
Dry-bulb temperature of indoor inlet air	°F	80.06	80.06	-
Wet-bulb temperature of indoor inlet air	°F	67.10	67.10	-
Dry-bulb temperature of indoor outlet air	°F	56.28	57.67	-
Wet-bulb temperature of indoor outlet air	°F	53.96	55.13	-
Dry-bulb temperature of outdoor inlet air	°F	80.06	80.06	-
Wet-bulb temperature of outdoor inlet air	°F	67.10	67.10	-
Dry-bulb temperature of outdoor outlet air	°F	113.29	113.58	-
Wet-bulb temperature of outdoor outlet air	°F	79.92	79.70	-
Volumetric flow rate of indoor outlet air	CFM	209.3	220.2	-
Volumetric flow rate of outdoor outlet air	CFM	223.8	217.4	-
Total Cooling Capacity	Btu/hr	8543.6	8260.5	-
Sensible cooling capacity	Btu/hr	5544.5	5472.8	-
Latent cooling capacity	Btu/hr	2999.1	2787.7	-

Duct Heat Transfer

Item	Unit	Sample 1	Sample 2	Sample 3
The outer diameter of duct, d	foot	0.492	0.492	-
The extended length of duct, L	foot	3.281	3.281	-
The surface area of duct, A_{duct}	square foot	5.071	5.071	-
The surface temperature of duct, t_1	°F	101.8	102.2	-
The surface temperature of duct, t_2	°F	107.8	107.4	-
The surface temperature of duct, t_3	°F	107.4	106.7	-
The surface temperature of duct, t_4	°F	108.7	107.8	-
T_{duct_SD}	°F	106.4	98.4	-
Convection coefficient, h ()	Btu/h per square foot per °F	3	3	-
Average evaporator inlet air dry-bulb temperature- T_{ei}	°F	80	80	-
Q_{duct_SD}	Btu/h	401.2	279.3	-

Infiltration Air Heat Transfer

Item	Unit	Sample 1	Sample 2	Sample 3
Average volumetric flow rate, V_{co_SD}	CFM	223.8	217.4	-
Dry bulb of the condenser outlet air	°F	113.29	113.58	-
Wet bulb of the condenser outlet air	°F	79.92	79.70	-
$p_{ws}(t^*)$	PSIA	0.5060281	0.5023976	-
Humidity ratio at saturation, W_s^*	-	0.0223379	0.0222085	-
Average humidity ratio of condenser outlet air, w_{co_SD}	lb _w /lb _{da}	0.0144952	0.0142504	-
Average density of the condenser outlet air, ρ_{co_SD}	lb _m /ft ³	0.0681642	0.0680312	-
Dry air mass flow rate of infiltration, $\dot{m}_{sd}$	lb/m	15.037	14.582	-
Specific heat of dry air, c_{p_da}	Btu/lb _m -°F	0.24	0.24	-
T_{ia_95}	°F	95	95	-
T_{ia_83}	°F	83	83	-
T_{indoor}	°F	80	80	-
C_{p_wv}	Btu/lb _m -°F	0.444	0.444	-
w_{ia_95}	lb _w /lb _{da}	0.01410	0.01410	-
w_{ia_83}	lb _w /lb _{da}	0.01086	0.01086	-
w_{indoor}	lb _w /lb _{da}	0.0112	0.0112	-
H_{fg}	Btu/lb _m	1061	1061	-
Sensible heat added to the room by infiltration air, Q_{s_95}	Btu/h	3425.7	3322.0	-
Sensible heat added to the room by infiltration air, Q_{s_83}	Btu/h	651.8	632.0	-
Latent heat added to the room by infiltration air, Q_{l_95}	Btu/h	2776.1	2692.1	-
Latent heat added to the room by infiltration air, Q_{l_83}	Btu/h	-325.5	-315.6	-
Total infiltration air heat, $Q_{infiltration_95}$	Btu/h	6201.8	6014.1	-
Total infiltration air heat, $Q_{infiltration_83}$	Btu/h	326.3	316.4	-

Seasonally Adjusted Cooling Capacity

Item	Unit	Sample 1	Sample 2	Sample 3
Cooling capacity, Capacity _{SD}	Btu/h	8543.6	8260.5	-
Adjusted Cooling Capacity, ACC ₉₅	Btu/h	1940.6	1967.1	-
Adjusted Cooling Capacity, ACC ₈₃	Btu/h	7816.1	7664.8	-
Seasonally Adjusted Cooling Capacity, SACC	Btu/h	6641.0	6525.2	-

Off-cycle Mode and Inactive Mode

Item	Unit	Sample 1	Sample 2	Sample 3
Temperature of indoor side	°F	80.06	80.06	-
Applied voltage	V	115.0	115.0	-
Frequency	Hz	60.0	60.0	-
Off-Cycle, P _{OC}	W	0.85	0.85	-
Inactive or Off, P _{OM}	W	0.38	0.38	-

Combined Energy Efficiency Ratio

Item	Unit	Sample 1	Sample 2	Sample 3
Cooling Mode (h)	h	750	750	-
Off-Cycle (h)	h	880	880	-
Inactive or Off (h)	h	1355	1355	-
Total annual energy consumption in off-cycle-AECoc	kWh/year	0.75	0.75	-
Total annual energy consumption in inactive or off mode-AECim or AECom	kWh/year	0.51	0.51	-
Total annual energy consumption attributed to all modes except cooling-AECT	kWh/year	1.26	1.26	-
Annual energy consumption in cooling mode, AECSD	kWh/year	660.75	651.75	-
Combined energy efficiency ratio, CEER _{SD}	Btu/hr·W	7.52	7.49	-

Conclusion

Item	Unit	Sample 1	Sample 2	Sample 3
Seasonally Adjusted Cooling Capacity, SACC	Btu/h	6641.0	6525.2	-
Power input to test unit	W	881.0	869.0	-
Combined energy efficiency ratio, CEER _{SD}	Btu/hr·W	7.52	7.49	-

Item	Unit	Value
Sampling size	-	2
Mean of SACC	Btu/h	6583.1
Mean of CEER _{SD}	Btu/hr·W	7.51
LCL/0.9 regard to CEER _{SD}	-	8.24
Represented Value of SACC	Btu/h	6600
Represented Value of CEER _{SD}	Btu/hr·W	7.5
CEC Energy Efficiency Standards, manufactured on or after February 1, 2020	Btu/hr·W	6.7
Verdict	-	Pass

--The End--