Guangdong Candor Intelligent Technology Co., Ltd.

TEST REPORT

SCOPE OF WORK
ENERGY EFFICIENCY TESTING - REFRIGERATOR

REPORT NUMBER
230927055GZU-001

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Report No. 230927055GZU-001

Testing Laboratory:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address:	Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China
Applicant:	Guangdong Candor Intelligent Technology Co., Ltd.
Address:	#41, North Xingye Rd., Nantou Town, Zhongshan City, 528427,Guangdong, China
Manufacturing Site:	Same as applicant
Address:	Same as applicant address
Testing Location:	Same as applicant
Address:	Same as applicant address
Product:	Refrigerator
Brand Name:	Candor
Description:	The product covered by this report is a household, indoor use, cord connected refrigerating appliance.
Model(s):	BC-308WA1EQ
Model Similarity:	N/A
Ratings:	115V~, 60Hz
Date of receipt of sample(s):	20-Jul-2023
Date Range of Test:	21-Jun-2023~24-Jul-2023
Test standard(s) or criteria(s):	20 CCR § 1605.1 10 C.F.R. §430.32(a) 10 C.F.R. Appendix A to Subpart B of Part 430 Uniform Test Method for Measuring the Energy Consumption of Refrigerators, Refrigerator-Freezers, and Miscellaneous Refrigeration Products[86 FR 56821, Oct. 12, 2021] ENERGY STAR® Program Requirements Product Specification for Consumer Refrigeration Products Eligibility Criteria Version 5.1
Conclusion:	The product tested complies with the Energy Efficiency Standard of CEC, DOE and E-star.

Prepared by:	Richard Zhang	Approved by:	Felix Li
Title:	Engineer	Title:	Technical Supervisor
Signature:	Richard Zhang	Signature:	Felix Li

Photos

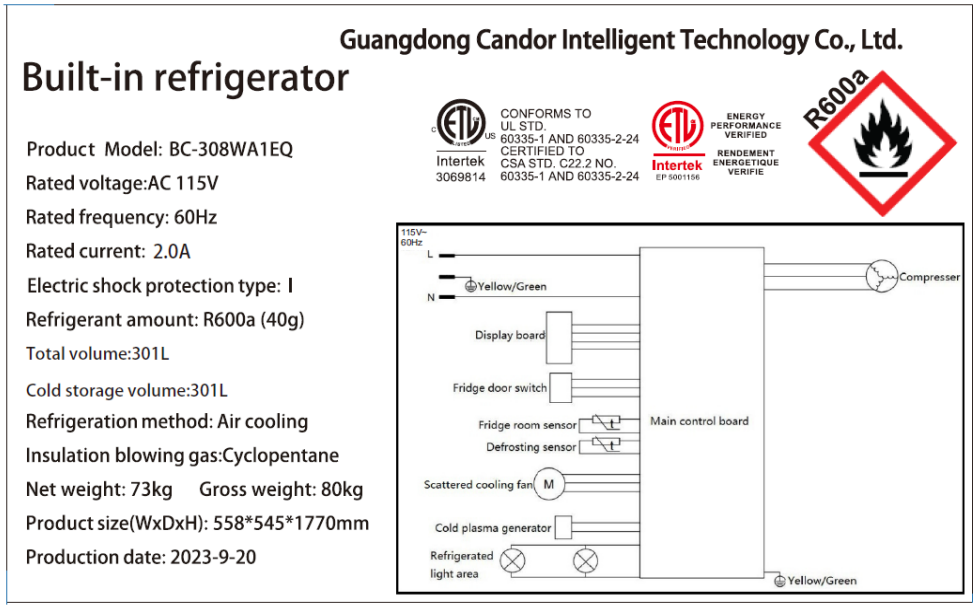
Photo 1 - Front view

Photo 2 - Rear view

Photo 3 - Front view with open door

Photo 4 - Label of compressor

Photo 5 - Nameplate



Product Details

Item	Data
Model number of Unit Under Tested	BC-308WA1EQ
Serial number	N/A
Condition of sample(s)	Prototype
Configuration	Refrigerator
Product class (Refrigerators, Refrigerator-Freezers and Freezers)	3A-BI Built-in All-refrigerators—automatic defrost
Refrigerating type	Compression-type
Condenser type	Grill
Condenser location	Back
Does the unit have an automatic icemaker?	No
Does the unit have a through the door: ice dispenser/water dispenser?	No
Is the unit a Built-in appliance?	Yes
Does the unit have a defrost heater?	No
Does the unit have an anti-sweat heater?	No
Defrost type	Automatic defrost
Reported refrigerated volume method	CAD-derived volume
Refrigerant	R600a
Charge of refrigerant [g]	40
Overall dimensions (W*D*H)[mm]	558*545*1770

Critical Components

Name	Manufacturer / trademark	Type / model	Technical data
Compressor	jiaxipera	VMH1070Y	230V,60-225Hz,3PH,R600a

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

Test Conditions

Items	Minimum	Maximum	Average
a) General			
Test voltage [V]:			115
Test Frequency [Hz]:			60
Air velocity [m/s]:		0.20	
b) Ambient conditions			
Ambient Temperature [°C]:	32.0	32.4	32.2

Refrigerated Volume

CAD-derived Volume

Compartment type	Description	Width (mm)	Depth (mm)	Heigh (mm)	Number	Volume (L)	Volume (Cu.ft)
Fresh food compartment	Part 1	490.5	433.7	1624.1	1	345.49	12.201
	Part 2	462.2	182.5	1624.1	-0.248	-33.97	-1.200
	Part 3	469.8	58.8	1082.7	-0.0984	-2.94	-0.104
	Part 4	29.3	433.7	1624.1	-0.468	-9.66	-0.341
	Part 5	16.7	10.4	44.9	-5.16	-0.04	-0.001
	Part 6	490.5	433.7	40.9	0.1714	1.49	0.053
	Part 7	19.9	12.6	176.5	4.06	0.18	0.006
	Part 8	462.6	258.7	28.4	0.1259	0.43	0.015
					Total:	301.0	10.63

Compartment	Volume (L)	Volume (Cu.ft)
Fresh food compartment	301.0	10.63
Total volume	301	10.6
Total adjusted volume	301.0	10.63

Measured Volume of A Production Unit

Compartment type	Description	Width (mm)	Depth (mm)	Heigh (mm)	Number	Volume (L)	Volume (Cu.ft)
Fresh food compartment	Part 1	490.5	433.8	1624.5	1	345.66	12.207
	Part 2	462.2	182.4	1624.1	-0.248	-33.96	-1.199
	Part 3	470	58.8	1082.7	-0.0984	-2.94	-0.104
	Part 4	29.5	433.7	1624.1	-0.468	-9.72	-0.343
	Part 5	16.5	10.4	44.9	-5.16	-0.04	-0.001
	Part 6	490.5	434	40.9	0.1714	1.49	0.053
	Part 7	19.8	12.6	176.7	4.06	0.18	0.006
	Part 8	462.6	258.7	28.4	0.1259	0.43	0.015
					Total:	301.1	10.63

Compartment	Volume (L)	Volume (Cu.ft)
Fresh food compartment	301.1	10.63
Total volume	301	10.6
Total adjusted volume	301.1	10.63

Note: The calculated value of CAD-derived volume is within two percent, or 0.5 cubic feet (0.2 cubic feet for products with total refrigerated volume less than 7.75 cubic feet (220 liters)), whichever is greater, of the volume of a production unit of the basic model measured in accordance with the applicable test procedure in part 430 of this chapter.

Volume Result Summary - Reported Value

Compartment	Volume (L)	Volume (Cu.ft)
Fresh food compartment	301.0	10.63
Total volume	301	10.6
Total adjusted volume	301.0	10.63

Energy Consumption Test

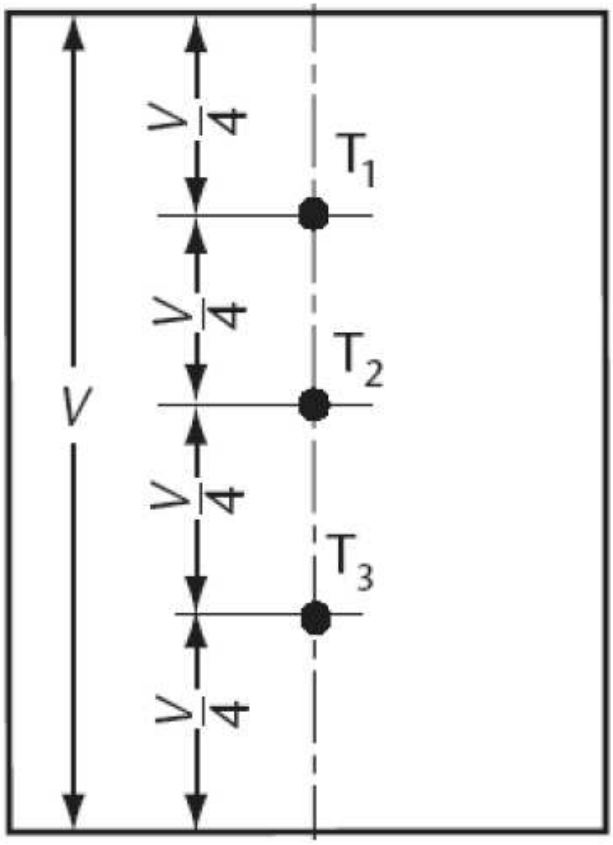
Item	Unit	Sample 1	Sample 2	-
Location of thermostat setting of the first test	-	Medium	Medium	-
The average temperature in fresh food compartment compartment	°F	43.63	43.14	-
Energy expended during the first test period	kWh	0.440	0.426	-
Length of time of the first test period	min	1455	1544	-
Test cycle energy expended during the first test cycle	kWh/24h	0.435	0.397	-
Location of thermostat setting of the second test	-	Coldest	Coldest	-
The average temperature in fresh food compartment compartment	°F	37.94	37.60	-
Energy expended during the second test period	kWh	0.539	0.495	-
Length of time of the second test period	min	1486	1510	-
Test cycle energy expended during the second test cycle	kWh/24h	0.522	0.472	-
The average per-cycle energy consumption per fresh food compartment (TR =39°F)	kWh/24h	0.506	0.453	-
Annual Energy Use	kWh/Year	184.69	165.35	-

Test Result Summary

Item	Unit	Value
Sampling size	-	2
Mean of sample	-	175.02
Sample standard deviation	-	13.675
UCL/1.1	-	214.61
The decided Annual Energy Use (AEU)	kWh/Year	214.61
Rated AEU	kWh/Year	281
Maximum AEU Limit of DOE	kWh/Year	313.75
Maximum AEU Limit of E-star	kWh/Year	282.45
Verdict	-	Pass

Temperature measurement points

fresh food compartment



Revision Summary

Date/ Proj # Site ID	Project Handler/ Reviewer	Item	Description of Change
			None

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