Hangzhou Kalifon Stainless Steel Kitchen Equipment Co., Ltd.

DOE/CEC/Energy Star TEST REPORT

SCOPE OF WORK
<EE TESTING – COMMERCIAL REFRIGERATOR– KTR-48B1>

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DOE/CEC/Energy Star TEST REPORT

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Intertek Report No. 221100928HAN-002
Intertek Project No. 221100928HAN

PERFORMANCE TEST
OF
Commercial Refrigerator
RENDERED TO

Hangzhou Kalifon Stainless Steel Kitchen Equipment Co., Ltd.
China

GENERAL: This Report gives the results of Performance Tests of Commercial Refrigerator, Model: KTR-48B1, Brand name: KALIFON. The investigation was begun on November 30, 2022 and completed on March 27, 2023. Each of prototype samples in good condition was provided by the client on November 30, 2022 and tested at Intertek Testing Services Zhejiang Ltd(Building 2, Juanhu Science and Technology Innovation Park, No. 500 Shuiyueting East Road, Haining, Zhejiang, China)

10 CFR Part 431 Subpart C Appendix B

California Code of Regulations: Title 20, Division 2, Chapter 4, Article 4, § 1605.1. Federal and State Standards for Federally-Regulated Appliances

ENERGY STAR® Program Requirements Product Specification for Commercial Refrigerators and Freezers Eligibility Criteria Version 5.0

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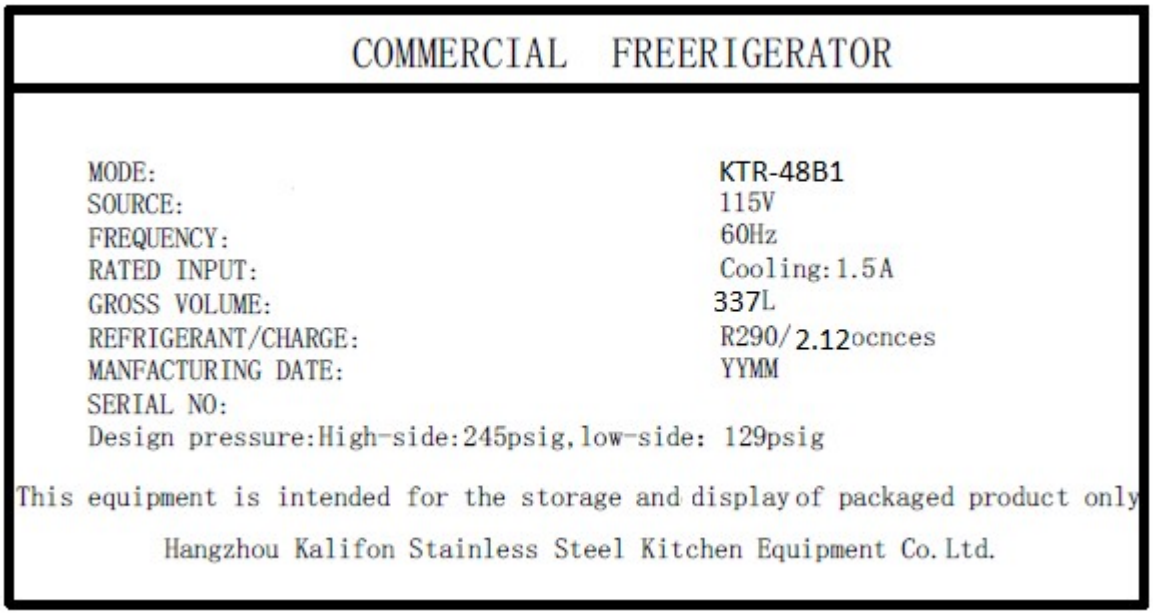
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Sample Descriptions:	
Model:	KTR-48B1
Serial No.:	NA
Multiple Compartments:	NA
Equipment category:	Self-Contained Commercial Refrigerators and Commercial Freezers With Doors
Equipment family:	Vertical Closed Solid (VCS)
Operating Temperature:	≥0℃
Door:	Solid
Refrigerant:	R290 / 2.12oz
Insulation Type	Non-ozone depleting
Width / Depth / Height (inch)	48.0 / 29.9 / 34.6
Evaporator fan motor:	Yes
Condenser fan motor:	Yes
Timer	No
Defrost heater:	No
Thermostat:	Yes
Anti-sweat heater:	No
Defrost mode:	Automatic defrost
Ice maker:	No
Water dispenser	No
Fresh food compartment volume(cu.ft / Litres):	11.89 / 336.7
Freezer compartment volume(cu.ft / Litres):	0 / 0
Total volume(cu.ft / Litres):	11.9 / 337
Total Display Area(m^2 / ft^2)	NA
Remark:	

Test Conditions:
Dry bulb range .....: 24±1℃
Wet bulb range .....: 18±1℃

Marking Plate:



Photos:

Front view



Open view

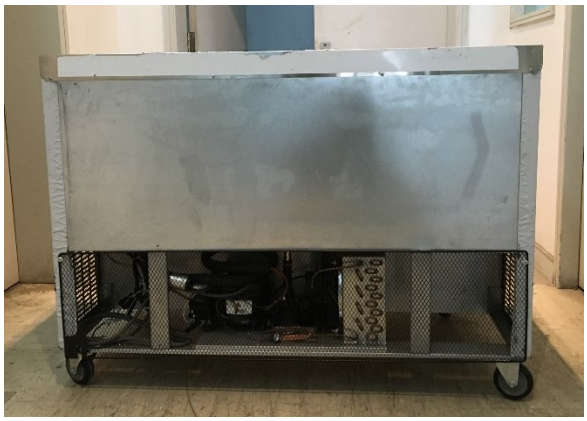


Photos:

Side view



Back view



Photos:

Compressor view



Critical Components Table:

Object / part No.	Manufacturer/ trademark	Type / model	Technical data
Compressor	Embraco	EMX3113U	115V, 60Hz, R290a
Evaporator fan motor	Shenzhen Yyc Motor Ltd Yyc Motor Limited	12038B1HL	120V, 60Hz, 9W
Condenser fan motor	Hangzhou Weiguang Electronic Co Ltd	ECM7108	120V, 60Hz, 5W

Test results:

Verification of DOE/CEC/Energy Star Version 5.0		
Model:	KTR-48B1	
Product Class	VCS.SC.M	
Volume	11.9 cu.ft	
TDA	NA	
Sample No.	1	2
Integrated Average Product Temperature (℃)	4.38	4.34
Daily energy consumption (kWh/day)	1.00	0.97
The sample mean (kWh/day)	0.98	
UCL/1.1 (kWh/day)	0.98	
DOE/CEC Maximum daily energy consumption (kWh/day)	0.05V + 1.36 = 1.95	
Energy Star Maximum Daily Energy Consumption (kWh/day)	0.0267V + 0.8 = 1.12	
Verdict	P	

Conclusion:

From the results of our testing on the submitted samples, we are of the opinion that the samples comply with the requirements of DOE/CEC/Energy Star.

Report prepared by:
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Engineer
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Report approved by:
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Reviewer
Calvin Li