

Commercial Refrigerators DOE Test Report

Brand Name	Master Cook
Product	Commercial Refrigerator
Description	The product covered by this report is a commercial used, cord connected refrigerator
Model	IGV-2RR-HC
Ratings	AC 115V, 60 Hz, 1PH, 3.6 A
Date of receipt of sample	2021/01/17
Date of test	2021/01/18 – 2021/01/29
Test standard (s) or criteria (s)	10 CFR Part 431 Subpart C, 10 CFR Part 431.64, and 10 CFR Part 431.66 (e) ANSI/AHRI Standard 1200 (SI)-2013 ANSI/ASHRAE Standard 72-2014
Conclusion	These results are in compliance with DOE requirement for commercial refrigerator.

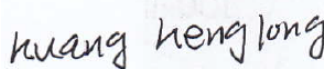
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Approved by: Huang Henglong

Signature:



Signature:



Product Information:

Model number or Unit Under Tested	IGV-2RR-HC
Defrost system*	Automatic defrost
Product Group Code	1
Equipment Category	Self-Contained Commercial Refrigerators and Commercial Freezers With Doors
Equipment Family	Vertical Closed Solid (VCS)
Condensing Unit Configuration	Self Condensing
Multiple Compartments	No
Door	Solid
Number of Doors	2
Door Opening Orientation	Hinged
Refrigerant Type	R290
Rating Temperature (°F)	38

- Refrigerator coils are kept below the freezing point (32 degrees Fahrenheit). During compressor down-time, the evaporator starts to defrost. Run-off water is drained into the evaporator pan and evaporated. Freezer coils are defrosted electrically. Automatic defrost timers automatically initiate at pre-set intervals and for a pre-determined duration.

Critical Components:

Name	Manufacturer/trademark	Type/model	Technical data
Compressor	EMBRACO	EMX3117U	115V, 60Hz, R290

Test Condition:

Dry Bulb	75.2 ± 1.8 °F
Wet Bulb	64.4 ± 1.8 °F
Illumination	≥ 800 lux
Input Voltage	115V
Input Frequency	60 Hz

Test Result:

Sample No.	Sample 1	Sample 2
Unit Test Voltage, Volts	115V	115V
Integrated Average Temperature of Product Simulators, °F	37.99	38.17
TDEC, kW h per day	1.886	1.730
Sampling size	2	
Mean of sample	1.808	
Sample standard deviation	0.110	
UCL/1.1	2.091	
Decided TDEC, kW h per day	2.091	

Exterior Dimension (W X D X H), in	28.9 x 32.2 x 82.5
Total Refrigerated Volumen, ft3	21.48
Total Display Area, TDA, ft2	NA
TDEC/Refrigerated Volumen, kW h/ft3 per day	0.097
TDEC/Refrigerated Area, kW h/ft2 per day	NA
Rated DEC, kW h per day	NA
Maximun DEC for Doe, kW h per day	2.434
Comply with DOE requirement	Pass