

CHUZHOU HANSHANG

NRCAN TEST REPORT

SCOPE OF WORK

<PERFORMANCE TESTING –REFRIGERATOR– MODELS (See models listed in page two) >

REPORT NUMBER

220302095SHA-006

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Intertek Project No. 2408B0754SHA

PERFORMANCE TEST
OF
REFRIGERATOR
RENDERED TO

Chuzhou Hangshang Electrical Appliances Co., Ltd
CHINA

GENERAL: This Report gives the results of Performance Tests of Refrigerator, Model: EFR285-C, EFR285-6COM, EFR231-BLACK-PL, EFR231-WHITE-PL; Brand name: FRIGIDAIRE, Models: RFR283-D-BLACK, RFR283-F-STAINLESS, RFR283-B-WHITE, RFR283-BLACK-6COM, RFR283-STAINLESS-6COM; Brand name: RCA. Model: FR276-RED-GB, FR276-BLACK-GB; Brand name: Ginny's, Model: 800-205V80BK, 800-205V80WT; Brand name: HOMCOM, Model: ACFR283-WHITE-6COM; Brand name: Arctic Chef. This investigation was authorized by Ms. SHAO XIAOYAN on March 10, 2022. The investigation was begun on March 12, 2022 and completed on March 18, 2022. Each of prototype samples in good condition was provided by the client on March 08, 2022 and tested at Intertek Testing Services Shanghai Limited. (7F, Building 51, No.1089, Qinzhou North Road, Shanghai, China.)

Certification Body: Intertek Testing Services NA Inc.
545 East Algonquin Road, Suite F Arlington Heights, IL 60005 USA

CAN/CSA-C300-15

Applicant:
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Manufacturer:
Chuzhou Hangshang Electrical Appliances Co., Ltd.

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Sample Descriptions:	
Model:	EFR285-C
Product:	Refrigerator
Door:	Solid door, hinged type
Refrigerant:	R600a, 17g
Evaporator fan motor:	NO
Condenser fan motor:	NO
Defrost heater:	NO
Anti-sweat heater:	NO
Defrost mode:	Manual defrost
Ice maker:	NO
Refrigerator compartment volume(L/cu.ft):	70/2.5
Freezer compartment volume(L/cu.ft):	0
Total volume(L/cu.ft):	70/2.5
Total adjusted volume(L/cu.ft):	70/2.5
Remark: All models are same appliances except the color of appearance.	

Revision History			
Index	Date	Revision Description	Revised by
0	May 17, 2022	Initial release	--
1	September 21, 2022	Added model name EFR285-6COM	Vicent Ni
2	March 21, 2023	Added model name RFR283-BLACK-6COM, RFR283-STAINLESS-6COM	Vicent Ni
3	November 14, 2023	Added model name FR276-RED-GB	Vicent Ni
4	April 11, 2024	Added model name EFR231-BLACK-PL, EFR231-WHITE-PL, FR276-BLACK-GB	Vicent Ni
5	August 15, 2024	Added model name 800-205V80BK, 800-205V80WT, ACFR283-WHITE-6COM	Vicent Ni

Marking Plate:

FRIGIDAIRE	
Refrigerator	
Model	EFR285-C
Rated Voltage (V)	115~
Rated Frequency (Hz)	60
Rated Current (A)	0.8
Refrigerant	R600a
Refrigerant Weight (g/oz)	17/0.60
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

Certification mark

Refrigerator

Circuit Diagram

Model : RFR283-D-BLACK

Model	RFR283-D-BLACK
Rated Voltage (V)	115~
Rated Frequency (Hz)	60
Rated Current (A)	0.8
Max.Lamp's Rated Power(W)	15
Refrigerant	R600a
Refrigerant Weight (g/oz)	17/0.60
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

Certification mark

Photos:





Critical Components Table:

Object / part No.	Manufacturer/ trademark	Type / model	Technical data
Compressor	Sichuan Danfu Environment Technology Co., Ltd.	DFB30DF	110-120V, 60Hz, R600a

Test results:
Appended table for energy consumption:

Sample number (Sample 1)		Temperature control position			
		Median position		Coldest position	
Test conditions	Frequency(HZ)	60		60	
	Voltage(V)	115.1		115.3	
	Ambient temperature(° C)	32.1		32.2	
	The relative humidity	50%		50%	
Fresh food compartment temperature (° C)		TR1	3.52	TR1	-1.56
		TR2	3.77	TR2	-1.21
		TR3	4.77	TR3	-0.18
		Average	4.02	Average	-0.98
Freezer compartment temperature (° C)		TF1	--	TF1	--
		TF2	--	TF2	--
		TF3	--	TF3	--
		Average	--	Average	--
ET(K=1)		0.459 (ET1)		0.632 (ET2)	
IET		0			
E1(Target temperature is 3.9 for fresh food compartment)		0.463			
E2(Target temperature is -17.8 for freezer compartment)		--			
Energy consumption for Sample 1 (kWh/day)		0.463			
Energy consumption (kWh/year)		169.0			

Appended table for energy consumption:

Sample number (Sample 2)		Temperature control position			
		Median position		Coldest position	
Test conditions	Frequency(HZ)	60		60	
	Voltage(V)	115.1		115.2	
	Ambient temperature(° C)	32.1		32.3	
	The relative humidity	51%		50%	
Fresh food compartment temperature (° C)		TR1	3.45	TR1	-1.77
		TR2	4.04	TR2	-1.01
		TR3	4.91	TR3	-0.14
		Average	4.13	Average	-0.97
Freezer compartment temperature (° C)		TF1	--	TF1	--
		TF2	--	TF2	--
		TF3	--	TF3	--
		Average	--	Average	--
ET(K=1)		0.442 (ET1)		0.621 (ET2)	
IET		0			
E1(Target temperature is 3.9 for fresh food compartment)		0.450			
E2(Target temperature is -17.8 for freezer compartment)		--			
Energy consumption for Sample 2 (kWh/day)		0.450			
Energy consumption (kWh/year)		164.3			

Sampling Plan:

Sample no.	Energy consumption(kWh/year)
Sample 1	169.0
Sample 2	164.3
Sample mean	166.6
UCL/1.1 (95%confidence)	165.2
Rated	210

Verification of NRCAN	
Model(s):	EFR285-C; EFR285-6COM; RFR283-D-BLACK; RFR283-F-STAINLESS; RFR283-B-WHITE; RFR283-BLACK-6COM; RFR283-STAINLESS-6COM; FR276-RED-GB; EFR231-BLACK-PL; EFR231-WHITE-PL; FR276-BLACK-GB; 800-205V80BK; 800-205V80WT; ACFR283-WHITE-6COM
Product Class:	11A.Compact all-refrigerators - manual defrost
Total adjusted volume	70L
Maximum Energy use(kWh/year)	$0.277av + 219.1 = 238.5$
Verdict	Pass

Conclusion:

From the results of our testing on the submitted samples, we are of the opinion that the samples comply with the requirements of NRCAN.

Report prepared by:



Project Engineer
Wendy Wang

Report approved by:

Technical Supervisor
Vicent Ni