

CHUZHOU HANSHANG

NRCAN TEST REPORT

SCOPE OF WORK

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

REPORT NUMBER

210101275SHA-020

ISSUE DATE

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[REVISED DATE]

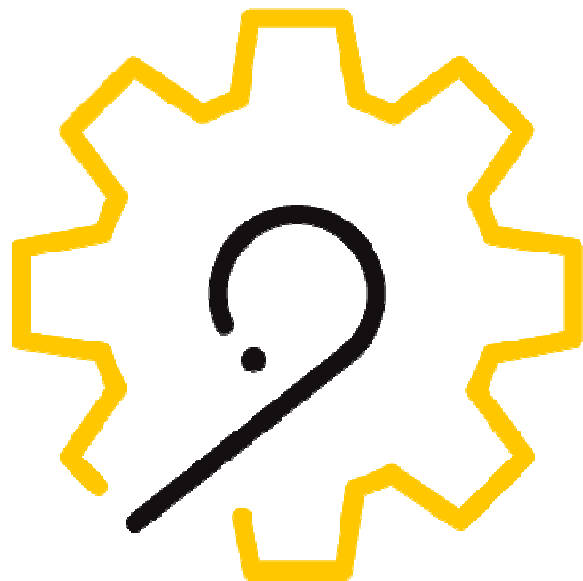
[14-August-2024]

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NRCAN TEST REPORT

INTERTEK TESTING SERVICES SHANGHAI LIMITED

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WWW.INTERTEK.COM

Issued: September 17, 2021
Revised: August 14, 2024

Intertek Report No. 210101275SHA-020
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: EFR492, EFR492-6COM; Brand Name: FRIGIDAIRE. Models: RFR441, RFR453, RFR464, RFR465, RFR441-6COM, RFR453-6COM, RFR465-6COM; Brand Name: RCA. Model: TFR441; Brand name: THOMSON. Model: MAR45W-1, MAR45BLS-1; Brand name: Marathon. Model: 800-204V80BK, 800-204V80WT; Brand name: HOMCOM. This investigation was authorized by Ms. SHAO XIAOYAN on January 20, 2021. The investigation was begun on February 06, 2021 and completed on February 15, 2021. Each of prototype samples in good condition was provided by the client on January 20, 2021 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.
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CAN/CSA-C300-15

Applicant:
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Manufacturer:
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An independent organization testing for safety, performance, and certification.

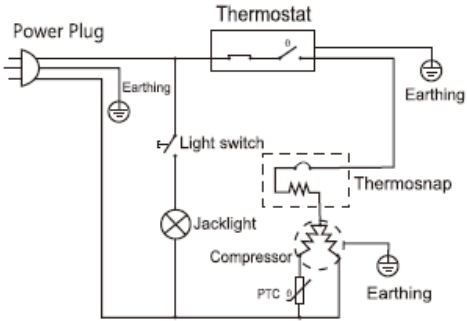
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Sample Descriptions:	
Model:	EFR492
Product:	Refrigerator
Door:	Solid door, hinged type
Refrigerant:	R600a, 26g
Evaporator fan motor:	NO
Condenser fan motor:	NO
Defrost heater:	NO
Anti-sweat heater:	NO
Defrost mode:	Manual defrost
Ice maker:	NO
Refrigerator compartment volume(L/cu.ft):	127/4.5
Freezer compartment volume(L/cu.ft):	0
Total volume(L/cu.ft):	127/4.5
Total adjusted volume(L/cu.ft):	127/4.5
Remark: All models are same appliances except the color of appearance.	

Revision History			
Index	Date	Revision Description	Revised by
0	September 17, 2021	Initial release	--
1	May 16, 2022	1. Added model name RFR441-6COM	Vicent Ni
2	September 21, 2022	1. Added model name EFR492-6COM	Vicent Ni
3	March 21, 2023	1. Added models name RFR453-6COM, RFR465-6COM	Vicent Ni
4	August 14, 2024	1. Added models name 800-204V80BK, 800-204V80WT	Vicent Ni

Marking Plate:

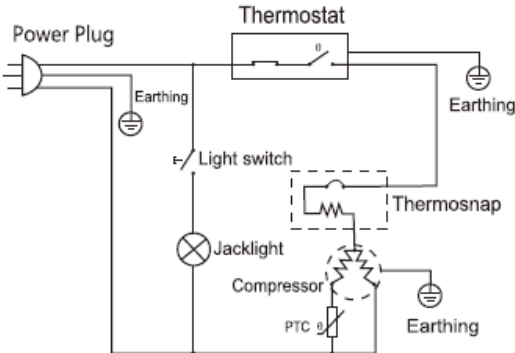
FRIGIDAIRE Refrigerator	
Model	EFR492
Rated Voltage (V)	115~
Rated Frequency (Hz)	60
Rated Current (A)	0.8
Max.Lamp's Rated Power(W)	15
Refrigerant	R600a
Refrigerant Weight (g/oz)	26/0.92
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88



Circuit Diagram

Other information

 Refrigerator		Model : RFR441
Circuit Diagram		



Model	RFR441
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)	26/0.92
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

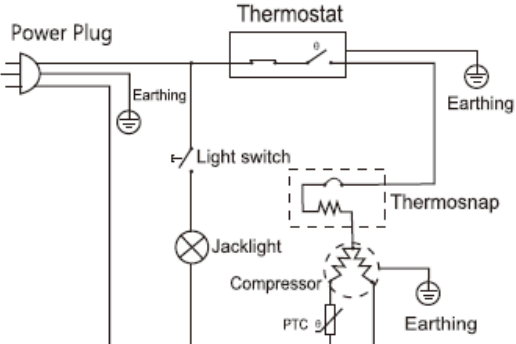
Other information



Refrigerator

Circuit Diagram

Model : RFR453



Model	RFR453
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)	26/0.92
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

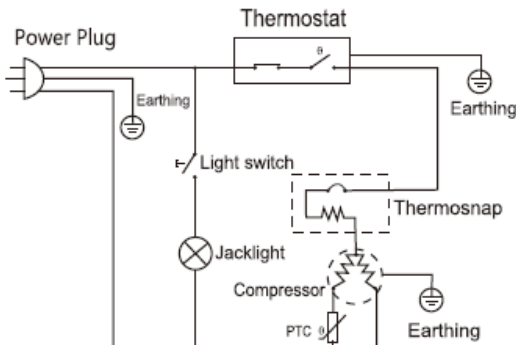
Other information



Refrigerator

Circuit Diagram

Model : RFR464



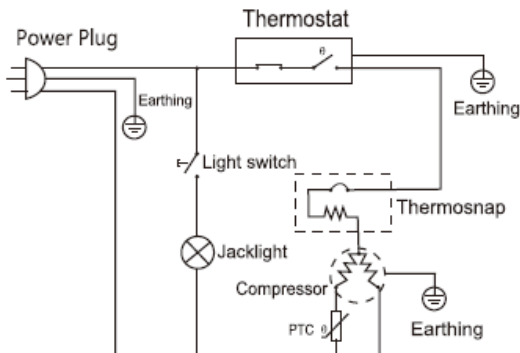
Model	RFR464
Rated Voltage (V)	115~
Rated Frequency (Hz)	60
Rated Current (A)	0.8
Max.Lamp's Rated Power(W)	15
Refrigerant	R600a
Refrigerant Weight (g/oz)	26/0.92
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

Other information



Refrigerator

Circuit Diagram



Model : RFR465

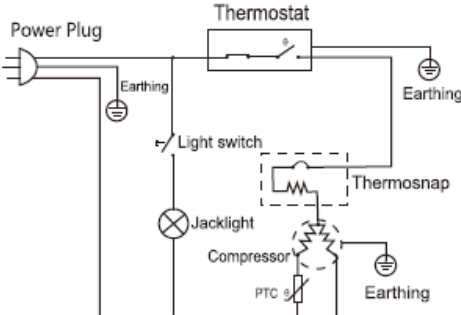
Model	RFR465
Rated Voltage (V)	115~
Rated Frequency (Hz)	60
Rated Current (A)	0.8
Max.Lamp's Rated Power(W)	15
Refrigerant	R600a
Refrigerant Weight (g/oz)	26/0.92
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

Other information



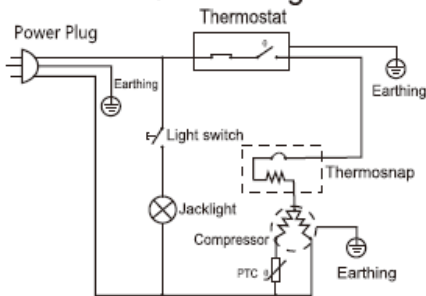
Refrigerator

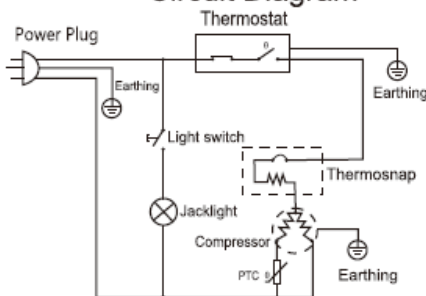
Circuit Diagram



Model	TFR441
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)	26/0.92
Design Pressure:High Side(PSIG)	250
Design Pressure:Low Side(PSIG)	88

Other information

 Refrigerator	Model : MAR45W-1
Circuit Diagram 	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) 26/0.92
	Design Pressure:High Side(PSIG) 250
	Design Pressure:Low Side(PSIG) 88
Other information	

 Refrigerator	Model : MAR45BLS-1
Circuit Diagram 	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) 26/0.92
	Design Pressure:High Side(PSIG) 250
	Design Pressure:Low Side(PSIG) 88
Other information	

Photos:





Critical Components Table:

Object / part No.	Manufacturer/ trademark	Type / model	Technical data
Compressor	HUAYI	L35C5L	110-120V, 60Hz, R600a

Test results:

Appended table for energy consumption:

Sample number (Sample 1)		Temperature control position			
		Median position		Warmest position	
Test conditions	Frequency(HZ)	60		60	
	Voltage(V)	115.3		115.0	
	Ambient temperature(° C)	32.3		32.2	
	The relative humidity	50%		50%	
Fresh food compartment temperature (° C)		TR1	1.95	TR1	-2.00
		TR2	5.46	TR2	1.74
		TR3	5.17	TR3	1.36
		Average	4.19	Average	0.37
Freezer compartment temperature (° C)		TF1	--	TF1	--
		TF2	--	TF2	--
		TF3	--	TF3	--
		Average	--	Average	--
ET		0.518 (ET1)		0.639 (ET2)	
IET		0			
E1(Target temperature is 3.9 for fresh food compartment)		0.527			
E2(Target temperature is -17.8 for freezer compartment)		NA			
Energy consumption for Sample 1 (kWh/day)		0.527			
Energy consumption (kWh/year)		192.4			

Sample number (Sample 2)		Temperature control position			
		Median position		Coldest position	
Test conditions	Frequency(HZ)	60		60	
	Voltage(V)	115.2		115.1	
	Ambient temperature(° C)	32.1		32.2	
	The relative humidity	48%		49%	
Fresh food compartment temperature (° C)		TR1	2.15	TR1	-2.01
		TR2	7.06	TR2	3.22
		TR3	6.08	TR3	2.08
		Average	5.10	Average	1.10
Freezer compartment temperature (° C)		TF1	--	TF1	--
		TF2	--	TF2	--
		TF3	--	TF3	--
		Average	--	Average	--
ET		0.457(ET1)		0.574 (ET2)	
IET		0			
E1(Target temperature is 3.9 for fresh food compartment)		0.492			
E2(Target temperature is -17.8 for freezer compartment)		NA			
Energy consumption for Sample 2 (kWh/day)		0.492			
Energy consumption (kWh/year)		179.6			

Sample number (Sample 3)		Temperature control position			
		Median position		Coldest position	
Test conditions	Frequency(HZ)	60		60	
	Voltage(V)	115.0		115.1	
	Ambient temperature(° C)	32.2		32.2	
	The relative humidity	50%		49%	
Fresh food compartment temperature (° C)		TR1	-1.22	TR1	-3.41
		TR2	6.28	TR2	3.10
		TR3	8.87	TR3	4.41
		Average	4.64	Average	1.37
Freezer compartment temperature (° C)		TF1	--	TF1	--
		TF2	--	TF2	--
		TF3	--	TF3	--
		Average	--	Average	--
ET		0.494(ET1)		0.578 (ET2)	
IET		0			
E1(Target temperature is 3.9 for fresh food compartment)		0.513			
E2(Target temperature is -17.8 for freezer compartment)		NA			
Energy consumption for Sample 3 (kWh/day)		0.513			
Energy consumption (kWh/year)		187.2			

Sampling Plan:

Sample no.	Energy consumption(kWh/year)
Sample 1	192.4
Sample 2	179.6
Sample 3	187.2
Sample mean	186.4
UCL/1.1 (95%confidence)	179.2
Rated	226

Verification of NRCAN	
Model(s):	EFR492; EFR492-6COM; RFR441; RFR453; RFR464; RFR465; TFR441; MAR45W-1; MAR45BLS-1; RFR441-6COM; RFR453-6COM; RFR465-6COM; 800-204V80BK; 800-204V80WT
Product Class:	11A. Compact All Refrigerator-manual defrost
Total adjusted volume	127L
Maximum Energy use(kWh/year)	$0.277av + 219.1 = 254.3$
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