TEST REPORT

Greenhouse and Energy Minimum Standards (Refrigerated Cabinets) Determination 2019

Report Number	:	4368362.50
Tested by (name + signature)	:	Lan Liang
Approved by (name + signature)	:	Jacky Zhang
Date of issue	:	2020-09-18
Total number of pages		8 pages
Testing Laboratory preparing the Report	:	DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch
Address	:	No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China
Applicant's name	:	GUANGDONG XINGXING REFRIGERATION EQUIPMENT CO.,LTD
Address	:	Nanbian Industrial Park, Leping, Sanshui, Foshan, Guangdong, China
Test specification:		
Standard	:	EN 16825:2016
Test procedure	:	Greenhouse and Energy Minimum Standards (Refrigerated Cabinets) Determination 2019
Non-standard test method	:	N/A
Test Report Form No	:	GEMS 2019 RSCv1.1
Test Report Form(s) Originator	:	DEKRA Guangzhou
Test item description	:	professional Freezer storage cabinet
Trade Mark	:	U-STAR
Manufacturer	:	Same as applicant
Factory	:	Same as applicant
Model/Type reference	:	GX-GN650BT-HC
Ratings	:	220-240 Vac, 50 Hz
Series No	:	N/A

Summary of testing:

Tests performed (Test items):

The tests were performed according to Greenhouse and Energy Minimum Standards (Refrigerated Cabinets) Determination 2019.

Test Voltage:230 V ± 1 %, 50 Hz ± 1 %.

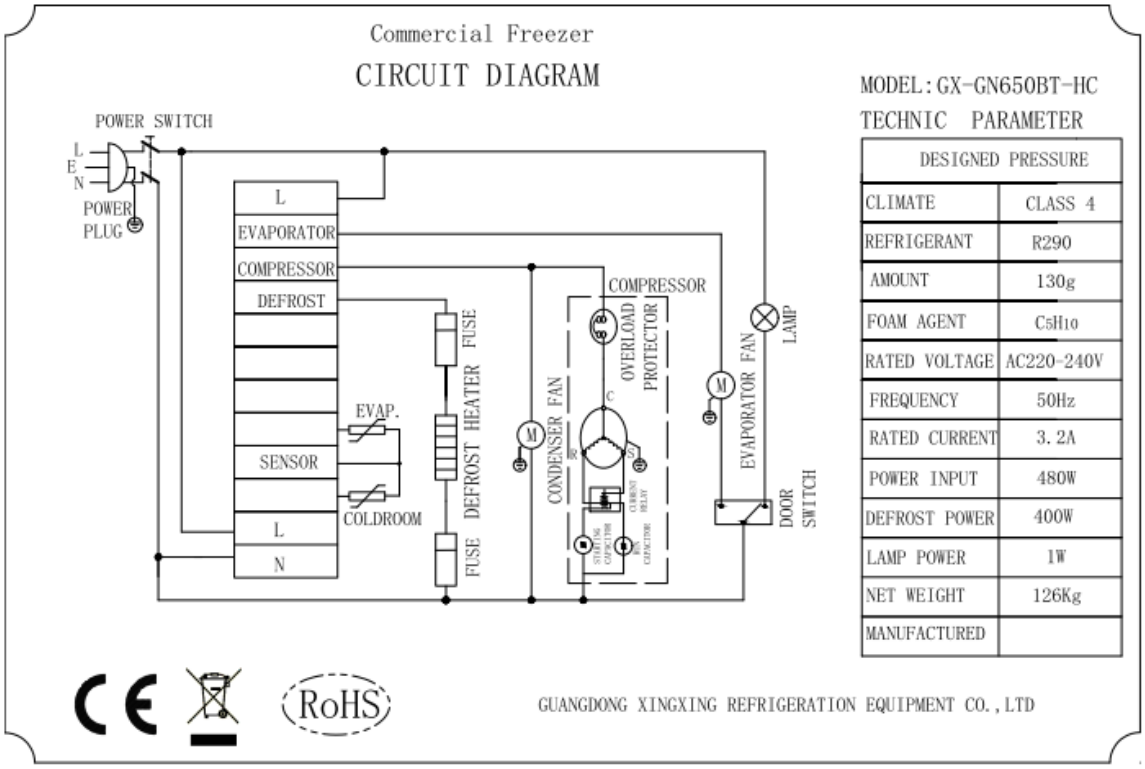
Testing location:

GUANGDONG XINGXING REFRIGERATION EQUIPMENT CO.,LTD

Nanbian Industrial Park, Leping, Sanshui, Foshan, Guangdong, China

Copy of marking plate

Rating label



General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a dot is used as the decimal separator.

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.
The test results presented in this report relate only to the object tested.
The information provided by the customer in this report may affect the validity of the results, the test lab is not responsible for it.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

This report is not used for social proof function in China market.

General product information:

N/A

Information requirements for professional refrigerated storage cabinets

Model(s):	GX-GN650BT-HC
Brand	U-STAR
Manufacture	GUANGDONG XINGXING REFRIGERATION EQUIPMENT CO.,LTD
Second manufacture	N/A
Country of manufacturer:	China
Oversized cabinet	☐yes ☒no
Low sales volume	☐yes ☒no
Product class code	SFV
Cabinet type	☐LD ☒ND☐HD
Climate class	4
M Package Temperature Class	L1
What is the access	☐open ☐lids ☒doors ☐drawers
Cabinet lighting control	☐manual ☒auto ☐no lights
anti-sweat heater control	☐manual ☐auto ☒no anti-sweat heater
Cabinet dimension(L*D*H)(mm)	740×830×2010
Refrigerant type	R290
Refrigerant quantity(g)	130
Total Energy Consumption/TEC(kWh/24h)	6.81
Energy Efficiency Index/EEI	66.0
Toal net volume(liters)	465

Test result

For Energy Consumption test				
Dry bulb temperature:30℃ Relative humidity:55% energy consumption test: 6.81 kWh/24h Setting: Compressor stop point -20℃ ,Compressor start point -23℃				
Class	**Description**	**Measurement/ Result/℃**	**Requirement**	**Inspection OK?**
☒L1 ☐L2 ☐L3	Warmest M-package max. temperature	-18.3	≤-15°C	P
	Warmest M-package min. temperature	-23.6	≤-18°C	P
☐M0 ☐M ☐M1	Warmest M-package max. temperature	N/A	≤7°C	N/A
☐M2 ☐H1 ☐H2	Coldest M-package min. temperature	N/A	≥-1°C	N/A

test and calculation result:

Item	Measured	Rated	Deviation	Verdict
Total net volume(liters)	465	465	0%	P
Total Energy Consumption/TEC(kWh/24h)	6.81	6.81	0%	P

	Rated	**Tested**
Toal net volume(liters)	465	465
daily energy consumption(kWh/24h)	6.81	6.81
M	4.928	4.928
N	1472	1472
Standard Annual Energy Consumption, SAE_c (kWh/y)	3763.52	3763.52
Annual Energy Consumption, AE_c (kWh/y)	2485.65	2485.65
Energy Efficiency Index, EEI	66.0	66.0
Number of stars	3	3
GEMS level requirements:EEI< 130	yes	yes

Energy efficiency index	Number of stars
$100 \leq$ EEI < 130	1
$77 \leq$ EEI < 100	2
$60 \leq$ EEI < 77	3
$45 \leq$ EEI < 60	4
$35 \leq$ EEI < 45	5
$27 \leq$ EEI < 35	6
$21 \leq$ EEI < 27	7
$16 \leq$ EEI < 21	8
$12 \leq$ EEI < 16	9
$0 \leq$ EEI < 12	10

Photos



Overview



Back view



Side view



Label of compressor

------END OF REPORT-----