Refrigerated Display Cabinet Test Report

Test Laboratory Name/Address

Laboratory of FROST TECH(Guangzhou) Refrigeration Facilities CO.,LTD.
Xiaowu Industrial Zone Dongchong Town,Nansha District,Guangzhou, Guangdong Province,P.R.China.

Manufacturing Name/Address

FROST TECH(Guangzhou) Refrigeration Facilities CO.,LTD.
Xiaowu Industrial Zone Dongchong Town,Nansha District,Guangzhou, Guangdong Province,P.R.China.

Brand Name	FROST TECH
Product	Refrigerated display cabinet
Description	The product covered by this report is a commercial used,cord connected refrigerated display cabinet.
Model(s)	ECO MD60/60
Voltage/Frequency	220-240V,50Hz
Rating current	4.7A
Drip tray Rating current	3A
Test standard(s)orcriteria(s)	(EU)2019/2018
	(EU)2019/2024
	ENISO23953-2:2015
Conclusion	The results are incompliance with there requirements of the EC regulation 2019/2024.
	Energy efficiency class: D

Prepared by:He Jianjin

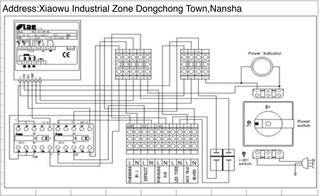
Photo 1 - Front view:

Name plate:

COMMERCIAL DISPLAY CABINET	
Model	ECO MD60/60
Voltage/Frequency	220-240/50Hz
Rating current	7.7A
Refrigerant	R452A / R404A (R290 Available)
Compressor	Tecumseh CAJ9510Z
Controller	LAE AD2-5C
Vesicant	CO2

Name:FROST TECH

Address:Xiaowu Industrial Zone Dongchong Town,Nansha



Product details:

Cabinet family code	VC2
Cabinet type	Integral
Model number of Unit Under Tested	ECO MD60/60
Brand name	FROST TECH
Operating temperature(s)	Chilled
Category	Vertical and combined supermarket refrigerator cabinets
Energy efficiency class	D
Climate class	3
M Package TemperatureClass	M2
Doors	N/A
Shelves	4 shelves
Light	LED strip light
Refrigerant	R452A / R404A (R290 Available)
Charge of refrigerant(g)	750g
Over all dimensions(W*D*H)[mm]	600*600*1950

Performance parameter:

Highest temperature of the warmest M-package of the compartment(s) with chilled operating temperatures (°C)	+7
Lowest temperature of the coldest M-package of the compartment(s) with chilled operating temperatures, or the highest minimum temperature of all M-packages of the compartment(s) with chilled operating temperatures (°C)	-1

Critical Components:

Name	Manufacturer/trademark	Type/model	Technical data
Compressor	TECUMSEH	CAJ9510Z	220-240V,50Hz
Controller	LAE	AD2-5C	220-240V,50Hz

Test Condition:

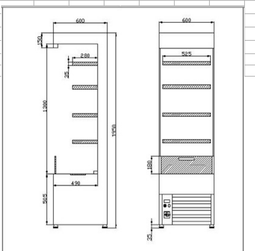
Dry Bulb	25±1°C
Relativehumidity	60±3%
Input Voltage	230V
InputFrequency	50Hz

Temperature and total display area Tests:

Temperature Class	Symbol	TemperatureTest(°C)			Total display area test(m
		Temperature	Limit	Verdict	
M2	θah	6.5	≤7	Pass	1.47
	θb	1	≥-1	Pass	

Calculation for EEI and conclusion:

Total display area TDA(m	1.47
M	9.1
N	9.100
P	1.1
Y	1.47
C	1
Calculation formula	SAE:365*P*(M+N*Y)*C
Standard annual engery consumption SAE(Kwh/24h)	9024.5
Daily energy consumption Edaily (kWh/24h)	12.11
Annual energy consumption AE(kWh/a)	4422
Energy Efficiency Index EEI	49
Energy efficiency class	D
From 1 March 2021:EEI<100,Ice-cream freezers:EEI<80	Pass
From 1 September 2023:EEI<80,Ice-cream freezers:EEI<50	Pass



Type	Length	Depth	Height	Nom.voltage frequency	Electrical fusing	Temperature range
ECO MD60/60	600 mm	600 mm	1950 mm	230 V/50 Hz	13A,slow	0 ...+7 °C