UGUR COOLER

TEST REPORT

USS 374 DTKL HARMONY R63

Written by:

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USS 374 DTKL HARMONY R63

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1 INTRODUCTION

1.1 Document revision history

Report release date	*Author*	*Report name and version*	*Remark / document change*
04.03.2021	Fatih UZUN	R20210304.180.00	Revision 00
15.04.2021	Fatih UZUN	R20210304.180.01	Revision 01 / Correct typo / Model name revised

1.2 General

This report provides the main results of measurements and an evaluation of a USS 374 DTKL HARMONY R63 to be operated at CC 2 Condition – 32,2°C/65% R.H environmental conditions

1.3 Sampling

The bottle cooler evaluated was a final prototype ready for production.

1.4 Subcontracting

All the tests were carried out by UGUR personnel (i.e. none of the work was performed by subcontracting parties).

2 COLLECTING INFORMATION

2.1 General information

Supplier's name or trademark:	UGUR
Model identifier:	USS 374 DTKL HARMONY R63
Tests performed Standard Name	EN 16902:2016
Comission Delegated Regulation	(EU) 2019/2018
Type of refrigerating appliance	Beverage Cooler
Cabinet family code	BCVT
Gross volume (dm3 or L)	358
Dimensions of cabinet (W/D/H)	595*689*2053
Ambient conditions for which the appliance is suitable Warmest temperature (°C) / Relative humidity (%)	32°C /% 65
Type of light source	LED
Light source energy deficiency class	D
Anti-sweat heater control (manual/auto/no anti-sweat heaters)	NO
Rated voltage/Frequency	230/50
Refrigerant / amount	R600a / 70gr

2.2 Test information

Date	Engineer Name	Ambient	Test	Observation or (corrective) action
20.04.2020	Ali Girgin	CC2	Energy Consumption	Pass

3 ENERGY CONSUMPTION TEST @CC2 CONDITION 32,2°C/65% R.H.

3.1 Preparation checklist

Parameters	Specification	Outcome
Environmental room, products and cooler stabilised	Yes/No	Yes
Environment room relative humidity stabilised	Yes/No	Yes
Rated Voltage	225.4 ≤ Vr ≤ 234.6	Yes
Rated Frequency	49.5 ≤ Fr ≤ 50.5	Yes
Test Climate Class	CC2-32,2°C/65% R.H	Yes

3.2 Test results

Parameters	Unit	Measured
Average ambient temperature Min ambient Max ambient	[°C]	32,2 31,73 32,65
Average relative humidity Min ambient Max ambient	[%]	65,0 66,9 62,46
Energy consumption during the 24-hour test period	[kWh/day]	1,569

Description	Measurement /Result	RequirementSpecial classification	Inspection
Highest temperature of warmest M-package [°C]	6,95	7,0	OK
the highest average compartment temperature of all compartments with chilled operating temperatures in degrees Celsius (°C) and rounded to the nearest integer	3	3,5	OK
Lowest temperature of coldest M-package[°C]	2,1	0	OK
Parameter		Value	
Recommended temperature(s) for optimised food storage (°C) (These settings shall not contradict the temperature conditions set out in Annex IV, Table 4, 5 or 6, as applicable)		3,5	

Test Summary:		
Kind of Product	Vertical Commercial Beverage Cooler	
M-package Class	K 1	
AE(kwh/a): (refrigerator cabinet's annual energy consumption,Edaily×365)	572,69	
SAE(kwh/a): (Standard annual energy consumption, SAE=365×P×(M+N×Y)×C.)	P value (correction factor)	1
	M value(modelling parameters)	2,1
	N value (modelling parameters)	0,006
	Y value(TDA)	404,092
	C value(temperature coefficient)	1
	Calculated SAE	1651,46
EEI: (Energy efficiency index, EEI=AE/SAE.)	34,68	
Energy efficiency Class	C	

Ecodesign requirements Compliance:

Energy efficiency index	Value	Verifying limit	Verdict (Pass / False)
EEI	34,68	<100 (from 2021.03.01)	Pass

From 1 March 2021,the EEI of refrigerating appliances with a direct sales function shall not be above the values as set out inTable 1

Table 1

Maximum EEI for refrigerating appliances with a direct sales function, expressed in %

	EEI
Ice-cream freezers	80
All other refrigerating appliances with a direct sales function	100

4 MAIN RESULTS DATA, AND OFFICIAL SIGNATURES

Test	Result
Energy Consumption Test	Pass

This data is stored at the UGUR laboratories.

Revision 00	Testing Engineer / Author:	Approval by UGUR laboratory manager
Name:	Ali Girgin/Fatih Uzun	Barış Kızıltay
Company:	UGUR SOGUTMA A.S	UGUR SOGUTMA A.S
Signature:		
Location and date:	04.03.2021	04.03.2021