

ENERGY EFFICIENCY INDEX TEST REPORT		SILVERLINE
Report Number:19-RD014	Controller : Mehmet Caba	Date : 10.07.2019
Approved By : Gizem ALTIN		

Name of the Company	SİVERLİNE A.Ş		
Adress / Tel & Fax & E-mail	ORGANİZE SANAYİ BÖLGESİ MERZİFON / AMASYA Tel: 358 514 93 50 Fax: 358 514 93 57		
Product Cod	-		
Product Serial Number	-		
Brand	SILVERLINE		
Model Number/Silverline Model Number	S2 MODEL/ BO6502		
Technical Properties	230 V 50 Hz		
Declared Energy Class (kW)	A		0,785
			0,778
Declared Volume (liter)	72		
Wideness (mm)	479		
Highness (mm)	375		
Deepness (mm)	414		
Measurement Volume (liter)	72		
Measurement Energy Class	A		
Standard / Regulations Number	IEC EN 60350-1 - (EU) No 65-66 /2014		
Explanation	According to Energy Efficiency Index Tests, A class obtained. It meets the EEIcavity < 96 requirement of Regulation.		

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1.Test Results

Calculation Sheet: Energy Consumption of Electric Ovens

Oven Type:	Enerji regülasyonu	Factory & Brand:	SILVERLINE	Testlab:	SILVERLINE KALİTE TİC. ÜRÜN LAB.
Voltage:	230 V	Usable Volume:	72,0 l	Operator:	B.ARPAGUŞ
Standby Power:	W	Tray surface area:	cm ²	Date:	21.06.2019

Function: Conventional heating "ic"										Nominal temperature rise: 180 K							
Preheating 180K		with load															
		Bricks							Measured		Room	Oven temperature					
Energy (Wh)	Time (min)	Nr.	(g)	(g)	(g)	end cooking weight (g)	weight loss (info.) (g)	start tempera- ture (°C)	(kWh)	(min)	average ambient temp. (°C)	nominal value (K)	real value (°C)	real value (K)			
--	--	1	942	2000	1058	1888	112	5,5	5,5	0,667	47,0	23,0	140±10	164	141		
		2	935	2025	1090	1879	146	5,3	5,3	0,775	41,0	23,0	180±10	203	180		
--	--	3	941	1994	1053	1808	186	3,9	3,7	0,916	39,0	24,0	220±10	244	220		
Results at 180 K						Slope S				Intercept B			Standard deviation				
Energy (linear regression)					(kWh)		0,785			0,00315			0,21732			0,015	
Time (linear regression)					(min)		42,4			-0,10			60,56			2,01	

Function: Forced air heating "if"										Nominal temperature rise: 155 K					
Preheating 155K		with load													
		Bricks							Measured		Room	Oven temperature			
Energy (Wh)	Time (min)	Nr.	(g)	(g)	(g)	end cooking weight (g)	weight loss (info.) (g)	start tempera- ture (°C)	(kWh)	(min)	average ambient temp. (°C)	nominal value (K)	real value (°C)	real value (K)	
--	--	1	946	1968	1022	1839	129	6,3	6,4	0,694	41,0	23,0	135±10	158	135
		2	945	1966	1021	1813	153	6,5	6,3	0,777	39,0	23,0	155±10	179	156
--	--	3	921	1969	1048	1798	171	3,4	3,4	0,863	37,0	23,0	175±10	197	174
Results at 155 K							Slope S			Intercept B		Standard deviation			
Energy (linear regression)				(kWh)		0,778		0,00432			0,10796		0,008		
Time (linear regression)				(min)		39,0		-0,10			54,87		0,15		

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2.Calculation of Energy Efficiency Class

For each cavity of a domestic oven, the Energy Efficiency Index (EEI_{cavity}) shall be calculated according to the following formulas:

for domestic electric ovens:

$$EEI_{cavity} = \frac{EC_{electric\ cavity}}{SEC_{electric\ cavity}} \times 100$$

$$SEC_{electric\ cavity} = 0,0042 \times V + 0,55 \text{ (in kWh)}$$

- EEI_{cavity} = Energy Efficiency Index for each cavity of a domestic oven, in %, rounded to the first decimal place,
- $SEC_{electric\ cavity}$ = Standard Energy Consumption (electricity) required to heat a standardised load in a cavity of an electric heated domestic oven during a cycle, expressed in kWh, rounded to the second decimal place,
- V = Volume of the cavity of the domestic oven in litres (L), rounded to the nearest integer,
- $EC_{electric\ cavity}$ = Energy consumption required to heat a standardised load in a cavity of an electric heated domestic oven during a cycle, expressed in kWh, rounded to the second decimal place,

$EC_{electric\ cavity}$	$SEC_{electric\ cavity}$	V	EEI_{cavity}
0,778	0,8524	72	91,271703

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A

Table 1: Energy efficiency classes of ovens	
Energy Efficiency Class	Energy Efficiency Index (EEI_{cavity})
A+++ (most efficient)	$EEI_{cavity} < 45$
A++	$45 \leq EEI_{cavity} < 62$
A+	$62 \leq EEI_{cavity} < 82$
A	$82 \leq EEI_{cavity} < 107$
B	$107 \leq EEI_{cavity} < 132$
C	$132 \leq EEI_{cavity} < 159$
D (least efficient)	$EEI_{cavity} \geq 159$

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3.Pictures



Signature;

Gizem Altın / R&D Laboratory Resp.

SILVERLINE ENDÜSTRİYEL TİCARET A.Ş.
Merkez Ofisi: Samsun / Samsun / MERZİFON / ANKARA
MERSİS NO: 0454003896800015
MERSİS NO: 03214933382464206
Vergi D: MERZİFON Vergi No: 424 003 8968