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Informacije o proizvodu (EN)

BEKO zamrzivač RFNE290E33WN



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

https://tehnoteka.rs/p/beko-zamrzivac-rfne290e33wn-akcija-cena/

PRODUCT INFORMATION SHEET

Supplier's name or trade mark (b),(d) :	Beko		
Supplier's address (b),(d) :	Arctic S.A Gaesti, Dambovita, 13 Decembrie Street, No 210, Romania		
Model identifier (d) :	RFNE290E33WN		
Type of refrigerating appliance:			
Low-noise appliance:	NO	Design type:	Free-Standing
Wine storage appliance:	NO	Other refrigerating appliance:	YES

General product parameters:

Parameter		Value	Parameter	Value
Overall dimensions (millimetre)	Height	1714	Total volume (dm^3 or l)	256
	Width	595	Energy efficiency class	F
	Depth	655	Airborne acoustical noise emission class	C
EEI		124	Climate class:	Extended temperate / Tropical
Airborne acoustical noise emissions (dB(A) re 1 pW)		39		
Annual energy consumption (kWh/a)		299		
Minimum ambient temperature (°C), for which the refrigerating appliance is suitable		10	Maximum ambient temperature (°C), for which the refrigerating appliance is suitable	43
Winter setting		NO		

Compartment Parameters:

Compartment type		Compartment parameters and values			
		Compartment Volume (dm^3 or l)	Recommended temperature setting for optimised food storage (°C) These settings shall not contradict the storage conditions set out in Annex IV, Table 3	Freezing capacity (kg/24 h)	Defrosting type (auto-defrost=A, manual defrost=M)
Pantry	NO	-	-	-	-
Wine storage	NO	-	-	-	-
Cellar	NO	-	-	-	-
Fresh food	NO	-	-	-	-
Chill	NO	-	-	-	-
0-star or ice- making	NO	-	-	-	-
1-star	NO	-	-	-	-
2-star	NO	-	-	-	-
3-star	NO	-	-	-	-
4-star	YES	256,0	-20	16,5	A
2-star section	NO	-	-	-	-
Variable temperature compartment	NO	-	-	-	-

For 4-star compartments	
Fast freeze facility	YES
For wine storage appliances	
Number of standard wine bottles	-
Light source parameters (a) (b):	
Type of light source	LED
Energy efficiency class	G
Minimum duration of the guarantee offered by the manufacturer (b),(d) :	24 Months
Additional information (b),(d) :	

Weblink to the manufacturer's website, where the information in point 4(a) Annex of CommissionRegulation (EU) 2019/2019 (1) (b) is found:

http://support.beko.com

(a) as determined in accordance with Commission Delegated Regulation (EU) 2019/2015 (2). (b) changes to this item shall not be considered relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369. (d) this item shall not be considered relevant for the purpose of Article 2(6) of Regulation (EU) 2017/1369.

TECHNICAL DOCUMENTATION

A general description of the refrigerating model, sufficient for it to be unequivocally and easily identified:

Brand name	Beko
Model identifier (d) :	RFNE290E33WN

Product specifications:

General product specifications:

Parameter	Value	Parameter	Value
Annual energy consumption (kWh/a)	299,22	EEI (%)	124,4
Standard annual energy consumption (kWh/a)	240,50	Combi parameter	1,00
Temperature rise time (h)	11,00	Load factor	0,9
Door heat loss factor	1,000	Climate class:	Extended temperate / Tropical
Anti-condensation heater type	None	Airborne acoustical noise emissions (dB(A) re 1 pW)	39

Additional product specifications for refrigerating appliances, except for low noise refrigerating appliances:

Parameter	Value
Daily energy consumption at 32 °C (kWh/24h)	0,921

Additional product specifications for low noise refrigerating appliances:

Parameter	Value
Daily energy consumption at 25 °C (kWh/24h)	-

Additional product specifications for wine storage appliances

Parameter	Value	**Parameter**	Value
Internal humidity (%)	-	Number of bottles	-

Compartment specifications:

	Compartment parameters and values							
Compartment type	Target temperature (°C)	Compartment Volume (dm^3 or l)	Freezing capacity (kg/24 h)	Thermodynamic parameter (rc)	Nc	Mc	Defrost factor (Ac)	Built-in factor (Bc)
Pantry	-	-	-	-	-	-	-	-
Wine storage	-	-	-	-	-	-	-	-
Cellar	-	-	-	-	-	-	-	-
Fresh food	-	-	-	-	-	-	-	-
Chill	-	-	-	-	-	-	-	-
0-star or ice- making	-	-	-	-	-	-	-	-
1-star	-	-	-	-	-	-	-	-
2-star	-	-	-	-	-	-	-	-
3-star	-	-	-	-	-	-	-	-
4-star	-18	256,0	16,5	2,10	138	0,15	1,10	1,00
2-star section	-	-	-	-	-	-	-	-
Variable temperature compartment	-	-	-	-	-	-	-	-
The sum of the volumes of the chill compartment(s) and the unfrozen compartment(s) [l or dm3]		-						
The sum of the volumes of the frozen compartment(s) [l or dm3]		256						

Additional information (b),(d) :

The references of the harmonised standards or other reliable accurate and reproducible methods applied: EN 62552-1:2020, EN 62552-2:2020, EN 62552-3:2020, EN60704-2-14:2019

Calculations

Annual energy consumption (kWh/a) , T average (°C) :

$$E_{\text{daily}} = P \times 24 + \frac{\Delta E_{df} \times 24}{\Delta t_{df}} \quad (2)$$

Where

E_{daily} is the energy in Wh over a period of 24 h

24 is h/d

P is the **steady state** power in watt for the selected **temperature control setting** as per Annex B.

ΔE_{df} is the representative incremental energy for **defrost and recovery** in Wh in accordance with Annex C (see C.5).

Δt_{df} is the estimated **defrost interval** in hours in accordance with Annex D.

Where there are additional defrost systems (each with its own **defrost control cycle**), the value of term based on ΔE_{df} and Δt_{df} is also added in Formula (2) for each additional defrost system.

$$T_{\text{average}} = T_{ss} + \frac{\Delta Th_{df}}{\Delta t_{df}} \quad (3)$$

Note : EN 60552-3:2020 , 6.8.2 clause, Equation 2-3 ,

Annual Energy , Daily energy consumption at 16 °C/ 32°C (kWh/24h) :

$$AE = 365 \times E_{daily}/L + E_{aux} \qquad E_{daily} = 0,5 \times (E_{16} + E_{32})$$

Note : EN 60552-3:2020 , 6.8.2 clause, Equation 4,(EU) 2019/2019 Ecodesign Requirements Directive

Standard annual energy consumption (kWh/a)

SAE, expressed in kWh/a and rounded to two decimal places, is calculated as follows:

$$SAE = C \times D \times \sum_{c=1}^{n} A_c \times B_c \times [V_c/V] \times (N_c + V \times r_c \times M_c)$$

The modelling parameters are set out in Table 4.

Table 4

The values of the modelling parameters per compartment type

Compartment type	r_c (a)	N_c	M_c	C
Pantry	0,35			
Wine storage	0,60	75	0,12	between 1,15 and 1,56 for combi appliances with 3- or 4-star compartments (b), 1,15 for other combi appliances, 1,00 for other refrigerating appliances
Cellar	0,60			
Fresh food	1,00			
Chill	1,10	138	0,12	
0-star & ice-making	1,20	138	0,15	
1-star	1,50			
2-star	1,80			
3-star	2,10			
Freezer (4-star)	2,10			

(a) $r_c = (T_a - T_c)/20$; with $T_a = 24$ °C and T_c with values as set out in Table 3.

(b) C for combi appliances with 3- or 4-star compartments is determined as follows:
where $frzf$ is the 3- or 4-star compartment volume V_f, as a fraction of V with $frzf = V_f/V$:
— if $frzf \leq 0,3$ then $C = 1,3 + 0,87 \times frzf$;
— else if $0,3 < frzf < 0,7$ then $C = 1,87 - 1,0275 \times frzf$;
— else $C = 1,15$.

The compensation factors are set out in Table 5.

Table 5

The values of the compensation factors per compartment type

Compartment type	A_c		B_c		D			
	Manual defrost	Auto-defrost	Freestanding appliance	Built-in appliance	≤ 2 (*)	3 (*)	4 (*)	> 4 (*)
Pantry	1,00		1,00	1,02	1,00	1,02	1,035	1,05
Wine storage								
Cellar								
Fresh food								
Chill				1,03				
0-star & ice-making	1,00	1,10		1,05				
1-star								
2-star								
3-star								
Freezer (4-star)								
(*) number of external doors or compartments, whichever is lowest.								

Note : (EU) 2019/2019 Ecodesign Requirements Directive, Clause 5, Table 4-5

5. Determination of the EEI:

EEI, expressed in % and rounded to the first decimal place, calculated as:

EEI = AE/SAE.

Note : (EU) 2019/2019 Ecodesign Requirements Directive, Clause 5

Auxiliary energy (kWh/a)

$$W_{heaters} = \left[\sum_{i=1}^{k} (R_i \times P_{H\,i})\right] \times 1{,}3 \qquad (40)$$

Table F.1 — Format for temperature and humidity data – Ambient controlled anti-condensation heaters

Relative Humidity	RH band mid-point	Probability R_i at 16 °C	Probability R_i at 22 °C	Probability R_i at 32 °C	Heater W at 16 °C	Heater W at 22 °C	Heater W at 32 °C
0 to 10 %	5 %	0,00 %	0,00 %	0,34 %	P_{H1}	P_{H11}	P_{H21}
10 to 20 %	15 %	0,61 %	6,86 %	2,01 %	P_{H2}	P_{H12}	P_{H22}
20 to 30 %	25 %	3,11 %	14,57 %	1,61 %	P_{H3}	P_{H13}	P_{H23}
30 to 40 %	35 %	5,03 %	14,83 %	0,86 %	P_{H4}	P_{H14}	P_{H24}
40 to 50 %	45 %	5,09 %	11,67 %	0,18 %	P_{H5}	P_{H15}	P_{H25}
50 to 60 %	55 %	4,67 %	8,31 %	0,01 %	P_{H6}	P_{H16}	P_{H26}
60 to 70 %	65 %	3,39 %	5,54 %	0,00 %	P_{H7}	P_{H17}	P_{H27}
70 to 80 %	75 %	3,17 %	2,51 %	0,00 %	P_{H8}	P_{H18}	P_{H28}
80 to 90 %	85 %	2,85 %	0,66 %	0,00 %	P_{H9}	P_{H19}	P_{H29}
90 to 100 %	95 %	2,05 %	0,07 %	0,00 %	P_{H10}	P_{H20}	P_{H30}

Incremental defrost and recovery energy consumption at 16 /32 °C (Wh)

$$\Delta E_{dfj} = (E_{end-F} - E_{start-D}) - \frac{(P_{SS-D} + P_{SS-F})}{2} \times (t_{end-F} - t_{start-D}) \quad (19)$$

$$\Delta E_{df} = \frac{\sum_{j=1}^{m} \Delta E_{dfj}}{m} \quad (22)$$

Note : EN 62552-3:2020 Annex C,Clause C.3.3, Equation 19-22

Defrost interval at 16 /32 °C (h)

for Compressor Run Time Defrost Controller

$$\Delta t_{df} = \frac{\Delta t_{rt} - \Delta t_{dr} - \Delta t_{dh}}{CRt_{SS}} + \Delta t_{dxy} \quad (26)$$

for Variable Defrost Controller

$$\Delta t_{df32} = \frac{\Delta t_{d-max} \times \Delta t_{d-min}}{[0{,}2 \times (\Delta t_{d-max} - \Delta t_{d-min}) + \Delta t_{d-min}]} \quad (27)$$

$$\Delta t_{df16} = 2 \times \Delta t_{df16}$$

Note : EN 62552-3:2020, Annex D, Equation 26-27

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