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# Informacije o proizvodu (EN)

## BEKO kombinovani frižider RDNE350K30WN



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-kombinovani-frizider-rdne350k30wn-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) : | RDNE350K30WN | | |
| 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 | 1720 | Total volume ($dm^3$ or l) | 313 |
| | Width | 595 | Energy efficiency class | F |
| | Depth | 655 | Airborne acoustical noise emission class | C |
| EEI | | 125 | Climate class: | Extended temperate / Tropical |
| Airborne acoustical noise emissions (dB(A) re 1 pW) | | 38 | | |
| Annual energy consumption (kWh/a) | | 276 | | |
| 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 | YES | 240,0 | 4 | - | A |
| Chill | NO | - | - | - | - |
| 0-star or ice- making | NO | - | - | - | - |
| 1-star | NO | - | - | - | - |
| 2-star | NO | - | - | - | - |
| 3-star | NO | - | - | - | - |
| 4-star | YES | 73,0 | -20 | 8,0 | A |
| 2-star section | NO | - | - | - | - |
| Variable temperature compartment | NO | - | - | - | - |

| | |
|---|---|
| For 4-star compartments | |
| Fast freeze facility | NO |
| **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) : | RDNE350K30WN |

Product specifications:

General product specifications:

| Parameter | Value | Parameter | Value |
|---|---|---|---|
| Annual energy consumption (kWh/a) | 275,94 | EEI (%) | 124,9 |
| Standard annual energy consumption (kWh/a) | 220,94 | Combi parameter | 1,50 |
| Temperature rise time (h) | 12,00 | Load factor | 1,0 |
| 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) | 38 |

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

| Parameter | Value |
|---|---|
| Daily energy consumption at 32 °C (kWh/24h) | 1,077 |

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 (dm³ 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 | 4 | 240,0 | - | 1,00 | 75 | 0,12 | 1,00 | 1,00 |
| Chill | - | - | - | - | - | - | - | - |
| 0-star or ice- making | - | - | - | - | - | - | - | - |
| 1-star | - | - | - | - | - | - | - | - |
| 2-star | - | - | - | - | - | - | - | - |
| 3-star | - | - | - | - | - | - | - | - |
| 4-star | -18 | 73,0 | 8,0 | 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 ] | | 240 | | | | | | |
| The sum of the volumes of the frozen compartment(s) [l or dm3 ] | | 73 | | | | | | |

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

$E_{\text{daily}}$ 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.

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

$\Delta t_{df}$ 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 $\Delta E_{df}$ and $\Delta t_{df}$ 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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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

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