

# Scheda informativa del prodotto

REGOLAMENTO DELEGATO (UE) 2019/2016, REGOLAMENTO DELEGATO (UE) 2021/340

**Marchio o nome del fornitore:** HISENSE

**Indirizzo del fornitore** Partizanska 12, 3320 Velenje, SI

**Identificativo del modello:** RB438N4BC3

**Type of refrigerating appliance:** Frigo-congelatore

Low-noise appliance:	No	Design type:	freestanding
Wine storage appliance:	No	Other refrigerating appliance:	Si

**Parametri di prodotto generali:**

Parametro	Valore	Parametro	Valore
Dimensioni (mm)	Altezza	2003	Total volume(dm <sup>3</sup> or l)
	Larghezza	595	
	Profondità	637	
Indice di efficienza energetica	78	Classe di efficienza energetica	D
Emissioni di rumore aereo (dB(A) re 1 pW)	38	Classe di emissioni di rumore aereo	C
Annual energy consumption (kWh/a)	201	Climate class:	Normal, Subnormal, Subtropical, Tropical
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 <sup>3</sup> 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/24h)	Defrosting type auto-defrost=A, manual defrost=M
Pantry	No	-	-	-	-
Wine storage	No	-	-	-	-
Cellar	No	-	-	-	-
Fresh food	Si	224,0	+4	-	A
Chill	Si	28,0	+2	-	A
0-star or ice-making	No	-	-	-	-
1-star	No	-	-	-	-
2-star	No	-	-	-	-
3-star	No	-	-	-	-
4-star	Si	100,0	-18	6,0	A
2-star section	No	-	-	-	-
Variable temperature compartment	No	-	-	-	-

**For 4-star compartments**

Fast freeze facility	Si
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**Light source parameters:**

Type of light source	Lighting technology used: LED strip
Classe di efficienza energetica	G

**Durata minima della garanzia offerta dal fornitore: 24 mesi**

**Informazioni aggiuntive:**

Weblink to the manufacturer's website, where the information in point4(a) Annex of Commission Regulation (EU) 2019/2019 is found: <http://global.hisense.com/>

## Technical parameters of the model and their declared values for refrigerating appliances

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

**Identificativo del modello:** RB438N4BC3

Product specifications:

General product specifications:

Parametro	Valore	Parametro	Valore
Annual energy consumption (AE) (kWh/a)	201,00	EEl (%)	77,6
Standard annual energy consumption (SAE) (kWh/a)	258,94	Combi parameter (C)	1,55
Temperature rise time (h)	15,00	Load factor (L)	1,0
Door heat loss factor (D)	1,000	Climate class:	Normal, Subnormal, Subtropical, Tropical
Anti-condensation heater typ	None	Emissioni di rumore aereo (dB(A) re 1 pW)	38

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

Parametro	Valore	Parametro	Valore
Daily energy consumption at 16 °C (E16) (kWh/24h)	-	Daily energy consumption at 32 °C (E32) (kWh/24h)	-

Compartment specifications:

Compartment type	Compartment parameters and values							
	Target temperature (°C)	Compartment volume (dm <sup>3</sup> or l)	Freezing capacity (kg/24h)	Thermodynamic parameter (r <sub>c</sub> )	N <sub>c</sub>	M <sub>c</sub>	Defrost factor (Ac) (A <sub>c</sub> )	Built-in factor (Bc) (B <sub>c</sub> )
Pantry	-	-	-	-	-	-	-	-
Wine storage	-	-	-	-	-	-	-	-
Cellar	-	-	-	-	-	-	-	-
Fresh food	+4	224,0	-	1,00	75	0,12	1,00	1,00
Chill	+2	28,0	-	1,10	138	0,12	1,00	1,00
0-star or ice-making	-	-	-	-	-	-	-	-
1-star	-	-	-	-	-	-	-	-
2-star	-	-	-	-	-	-	-	-
3-star	-	-	-	-	-	-	-	-
4-star	-18	100,0	6,0	2,10	138	0,15	1,10	1,00
2-star section	-	-	-	-	-	-	-	-
Variable temperature compartment	-	-	-	-	-	-	-	-

The sum of the volumes of the chill compartment and the unfrozen compartment (s) [l or dm <sup>3</sup> ]		252						
The sum of the volumes of the frozen compartment (s) [l or dm <sup>3</sup> ]		100						
Informazioni aggiuntive:								
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, EN 60704-2-14:2013 + A1:2019, EN 60704-1:2010 + A11:2012, EN 60704-3:2019, Regulation (EU) 2017/1369, Commission Delegated Regulation (EU) 2019/2016, Commission Regulation (EU) 2019/2019, COMMISSION DELEGATED REGULATION (EU) 2021/340								
The list of equivalent models can be found on the EPREL database website.								

Result of calculations

According to (EU) 2019/2016, Annex IV

Calculation of the EEI:

$$EEI = AE/SAE = 201,00/258,94 = 77,6 \%$$

Calculation of the AE:

$$AE = 365 \times (0,5 \times (E_{16} + E_{32}))/L + E_{aux} = 365 \times (0,5 \times (0,000 + 0,000))/1,0 + 0 = 201,00$$

Calculation of standard annual energy consumption:

$$SAE = C \times D \times \sum_{c=1}^n Ac \times Bc \times [Vc/V] \times (Nc + V \times rc \times Mc)$$

$$= 1,55 \times 1,000 \times ($$

$$(1,10 \times 1,00 \times (100,0/352) \times (138 + 352 \times 2,10 \times 0,15) ) +$$

$$(1,00 \times 1,00 \times (28,0/352) \times (138 + 352 \times 1,10 \times 0,12) ) +$$

$$(1,00 \times 1,00 \times (224,0/352) \times (75 + 352 \times 1,00 \times 0,12) )) = 258,94$$

Naming parameters and terms:

SAE	Standard annual energy consumption (kWh/a)
AE	Annual energy consumption (kWh/a)
L	Load factor (L=0,9 for refrigerating appliances with only frozen compartments, all other L = 1)
Eaux	Auxiliary energy (kWh/a)
Edaily	Daily energy consumption (kWh/24h)
E16	Energy consumption as 16°C ambient temperature (kWh/24h)
E32	Energy consumption as 32°C ambient temperature (kWh/24h)
c	The index number for a compartment type from 1 to n
Vc	Compartment volume (dm <sup>3</sup> )
V	Total volume (dm <sup>3</sup> )
rc, Nc, Mc, C	Modelling parameters specific to each compartment, values as set out in table 1
Ac, Bc, D	Compensation factors with values as set out in table 2

Compartment type	rc <sup>(a)</sup>	Nc	Mc	C
Pantry	0,35	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
Wine storage	0,60			
Cellar	0,60			
Fresh food	1,00	138	0,12	
Chill	1,10			
1-star	1,20	128	0,15	
2-star	1,50			

3-star	1,80	138	0,15	between 1,15 and 1,56 for combi appliances
4-star	2,10			
2-star section	2,10			

<sup>(a)</sup>  $r_c = (T_a - T_c)/20$ ; with  $T_a = 24$  °C and  $T_c$  with values as set out in Table 3 Regulation (EU) 2019/2016

<sup>(b)</sup> C for combi appliances with 3- or 4-star compartments is determined as follows:

where frzf is the 3- or 4-star compartment volume  $V_{fr}$  as a fraction of V with  $frzf = V_{fr}/V$ :

- if  $frzf \leq 0,3$  else  $C = 1,3 + 0,87 \times frzf$ ;
- if else  $0,3 < frzf < 0,7$  else  $C = 1,87 - 1,0275 \times frzf$ ;
- else  $C = 1,15$ .

Compartment type	A <sub>C</sub>		B <sub>C</sub>		D			
	Manual defrost	Auto defrost	Freestanding appliance	Built-in appliance	$\geq 2^{(a)}$	$3^{(a)}$	$4^{(a)}$	$>4^{(a)}$
Pantry	1,00		1,00	1,02	1,00	1,02	1,035	1,05
Wine storage				1,03				
Cellar								
Fresh food								
Chill								
1-star	1,00	1,10	1,05					
2-star								
3-star								
4-star								
2-star section								

<sup>(a)</sup> number of external doors or compartments, whichever is lowest.