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ANNEX IV

Method for calculating the Energy Efficiency Index

CLASSIFICATION OF HOUSEHOLD REFRIGERATING APPLIANCES 1.

Household refrigerating appliances are classified in categories as in Table 1. Each category is defined by the specific compartment composition as specified in Table 2 and is independent of the number of doors and/or drawers.

TABLE 1

Household refrigerating appliances categories

Category	Designation
1	Refrigerator with one or more fresh-food storage compartments
2	Refrigerator-cellar, cellar and wine storage appliances
3	Refrigerator-chiller and refrigerator with a 0-star compartment
4	Refrigerator with a 1-star compartment
5	Refrigerator with a 2-star compartment
6	Refrigerator with a 3-star compartment
7	Refrigerator-freezer
8	Upright freezer
9	Chest freezer
10	Multi-use and other refrigerating appliances

Household refrigerating appliances that cannot be classified in categories 1 to 9 because of compartment temperature are classified in Category 10.

TABLE 2

Household refrigerating appliance classification and relevant compartment composition

Nomi	naDesigi	n + 12	+ 12	+ 5	0	0	-6	-12	– 18	– 18	Category(number)
tempe	erätture										
(for											
the											
EEI)											
(°C)											

also includes 3-star frozen-food cabinets.

Notes:

the compartment is present; the compartment is not present; the presence of the compartment is optional; Y N O

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Compa Other types	t Wine storag		Fresh food storag		0- star/ Ice makir	1- star	2- star	3- star	4- star	
Applian ©o mp Category	artmen	ts comp	osition		1		ı			
REFRICIERAT WITH ONE OR MORE FRESH- FOOD STORAGE COMPARTME		N	Y	N	N	N	N	N	N	1
REFRIGERAT	OR-	О	Y	N	N	N	N	N	N	2
CELLAR, CELLAR	О	Y	N	N	N	N	N	N	N	
AND N WINE STORAGE APPLIANCE	Y	N	N	N	N	N	N	N	N	
REFRIGERAT	OR-	О	Y	Y	О	N	N	N	N	3
CHILLER AND REFRIGERAT WITH A 0- STAR COMPARTME		O	Y	O	Y	N	N	N	N	
REFRIGERAT WITH A 1- STAR COMPARTME		О	Y	О	О	Y	N	N	N	4
REFRIGERAT WITH A 2- STAR COMPARTME		О	Y	О	О	О	Y	N	N	5
REFRICERAT WITH A 3-		O	Y	O	О	О	О	Y	N	6



Notes:

Y N O the compartment is present; the compartment is not present; the presence of the compartment is optional; Document Generated: 2024-01-03

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STAR COMPA	ARTME	ENT									
REFRIC FREEZ		OR-	О	Y	О	О	О	О	О	Y	7
UPRIGI FREEZ		N	N	N	N	N	N	О	Y ^a	Y	8
CHEST		N	N	N	N	N	N	О	N	Y	9
MULTI- USE AND OTHER APPLIA		O	О	O	O	О	O	О	О	O	10

also includes 3-star frozen-food cabinets.

Notes:

= the compartment is present;

Y N O the compartment is not present;

the presence of the compartment is optional;

Household refrigerating appliances are classified in one or more climate classes as shown in Table 3

TABLE 3

Climate classes

Cilillate classes	Cimiate classes							
Class	Symbol	Ambient average temperature °C						
Extended temperate	SN	+ 10 to + 32						
Temperate	N	+ 16 to + 32						
Subtropical	ST	+ 16 to + 38						
Tropical	Т	+ 16 to + 43						

The refrigerating appliance shall be capable of maintaining the required storage temperatures in the different compartments simultaneously and within the permitted temperature deviations (during the defrost cycle) as defined in Table 4 for the different types of household refrigerating appliances and for the appropriate climate classes.

Multi-use appliances and/or compartments shall be capable of maintaining the required storage temperatures of the different compartment types where these temperatures can be set by the end-user according to the manufacturer's instructions.

TABLE 4

Storage temperatures

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Other	temperature Wine mestorage	es (°C) Cellar comparti	Fresh-	Chill compartr	One-	Two-	Food freezer
compartinestorage						tmentmpart	
t _{om}	t _{wma}	t _{cm}	comparti	nent t _{cc}	t*	section	three- star compartment/ cabinet
com	wma	tem .	t_{3m} , t_{ma}	Ccc			
>+14	+ 5 ≤ twma ≤ + 20	+ 8 \le t _{cm} \le + 14	$\begin{array}{c} 0 \leq t_{1m}, \\ t_{2m}, t_{3m \leq +} \\ _{8;} t_{ma} \leq + \\ 4 \end{array}$	$\begin{vmatrix} -2 \le t_{cc} \le \\ +3 \end{vmatrix}$	≤-6	≤-12ª	≤-18 ^a

for frost-free household refrigerating appliances during the defrost cycle, a temperature deviation of no more than $3\ K$ during a period of 4 hours or 20 % of the duration of the operating cycle, whichever is the shorter, is allowed

Notes:

storage temperature of the other compartment

 t_{om} storage temperature of the wine storage compartment with a variation of 0.5 K t_{wma}

storage temperature of the cellar compartment t_{cm}

 t_{1m}, t_{2m}, t_{3m}

storage temperatures of the fresh-food compartment average storage temperature of the fresh-food compartment t_{ma} instantaneous storage temperature of the chill compartment t_{cc} t*, t**, t*** t*, t**, t*** : maximum temperatures of the frozen-food storage compartments storage temperature for the ice-making compartment and for the '0-star' compartment is below 0 °C

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Changes and effects yet to be applied to:

Regulation revoked by S.I. 2021/745 Sch. 29 para. 3

Changes and effects yet to be applied to the whole legislation item and associated provisions

- Signature words omitted by S.I. 2019/539 Sch. 2 para. 9(6)
- Annex 5(2)(a) words substituted by S.I. 2019/539 Sch. 2 para. 9(8)(c)(i)
- Annex 5(2)(a) words substituted by S.I. 2019/539 Sch. 2 para. 9(8)(c)(ii)
- Annex 5(7) omitted by S.I. 2019/539 Sch. 2 para. 9(8)(d)