





Submitting Products to Topten Overview of selection criteria and accepted standards

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Criteria for all products

Criteria:	\checkmark	Natural refrigerant with global warming potential GWP ≤ 3	
		(e.g. R290/propane, R600a/isobutane, R744/CO ₂)	

✓ Plug-in (integral, self-contained)

Beverage Coolers

Criteria:	\checkmark	Forced-air circulation	capable of pulling d	own temperature within 4 hours	s, respectively)
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- ✓ Maximum energy efficiency index of 35 according to 2019 final regulation; R744 models with a maximum energy efficiency index of 50 according to 2019 final regulation
- Data: Measurement at climate class CC1 (EN 16902) -> 25°C, 60% relative humidity
 - Temperature class must be one of the following: K1, K2, K3 or K4 (EN 16902)
 - According to the European standard for beverage coolers (EN 16902)

Ice Cream Freezers

Criteria:	 With lid, maximum 600 litres net volume, static ✓ Maximum energy efficiency index of 35 according to 2019 final 	
Data:	•	Measurement at climate class 4 (30°C, 55% relative humidity)

- Temperature class must be one of the following: C1 or C2 (EN 16901)
- According to the European standard for ice cream freezers (EN 16901)

Refrigerated Display Cabinets

Criteria:
Maximum energy efficiency index as given in table below according to official regulation (EU) 2019/2018.
Category
Energy efficiency index
Energy efficiency index
Energy efficiency class

Category	Energy efficiency index	Energy efficiency class
Horizontal display freezers	<=50	D
Small counter-top freezers	<=10	
Vertical freezers with glass doors (TDA < 2 m2) *	<=30	
Vertical freezers with glass doors (TDA > 2 m2) *	<=60	
Horizontal chilled display cabinets	<=50	D
Vertical chilled display cabinets	<=35	С

Data:

- Measurement at climate class 3 (25°C, 60% relative humidity)
- Temperature class must be one of the following: M1, M2, H1, H2, L1, L2 or L3
- Primarily according to EN ISO 23953-2:2015

Refrigerated Vending machines

* with closed sides







Criteria: 🗸 Maximum draft energy efficiency index of 75 according to 2014 working document

- Measurement at climate class 3 (25°C, 60% relative humidity)
 - Primarily according to the new European standard for vending machines (EN 50597:2015)

Storage Refrigerators and Freezers

Criteria: ✓ Energy efficiency class according to the EU energy label (EU regulation No 2015/1094) as given in the following table (or better):

Category	Energy efficiency class	Energy efficiency index
Storage counter refrigerators	А	<25
Storage refrigerators 1-door	А	<25
Storage refrigerators 2-doors	С	<50
Storage counter freezers	В	<35
Storage freezers 1-door	С	<50
Storage freezers 2-doors	С	<50
Storage refrigerator-freezers	D	<75

Minibars

Data:

Criteria: ✓ Energy efficiency class according to the EU energy label (EU regulation No 1060/2010) as given in the following table (or better):

Category	Energy efficiency class	Energy efficiency index
Minibars	A+	<42

Wine coolers

Criteria: ✓ Energy efficiency class according to the EU energy label (EU regulation No 1060/2010) as given in the following table (or better):

Category	Energy efficiency class	Energy efficiency index
One temperature zone	A+	<42
Multi temperature zones	А	<55

Links to documents

- EU energy label for refrigerated commercial display cabinets: https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1575538096087&uri=CELEX:32019R2018
- EU energy label for storage refrigerators and freezers: http://www.topten.eu/uploads/File/2015-1094_EN_Professional-equipment_Label.pdf
- EU energy label for household refrigerating appliances: http://www.topten.eu/uploads/File/Energy%20Label%20regulation%20cold%202010.pdf

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Info :

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