

Guidelines for Topten Public Procurers

Minibars & Wine Coolers

[Steffen Hepp](#), March 2022



Why follow Topten criteria?

- Topten.eu/pro (www.topten.eu/pro) is a European web portal helping buyers, professionals, public procurers and large buyers to find the most energy efficient products available in Europe. The products are selected and updated continuously, according to their high energy and environmental performances, independently from the manufacturers.
- The Topten criteria below can be inserted directly into tendering documents.
- All minibars and wine coolers displayed on www.topten.eu meet the criteria contained in these guidelines. Procurers can therefore use the website to check the availability and assortment of products currently on the market, which meet the Topten selection criteria.
- Topten.eu/pro links to national partners Topten Pro websites and was developed under the Topten Act project, supported by the European Union through Horizon 2020 programme.

How much can you save?

On www.topten.eu there is one category for minibars and another for wine coolers

Assumptions { Life time expectation: 10 years
Electricity cost: 0,20 €/kWh

		Volume (litres)	Refrigerant	Energy (kWh/year)	Electricity costs (€ in 10 years)	Savings (€ in 10 years)
Minibars	Topten model	40	R600a	51	102	74% energy/unit 294 €/unit
	Inefficient model	40	R600a	198	396	
Wine coolers	Topten model	414	R600a	104	208	41% energy/unit 146 €/unit
	Inefficient model	414	R600a	177	354	

Comparing models with similar net capacity, Topten models allow electricity savings, over 10 years, from almost 300 €/unit for minibars, to almost 150 €/unit for wine coolers. Best models on www.topten.eu consume more than 74% less energy than inefficient models.

In addition, all Topten models use either natural refrigerants such as R290 (propane) or R600a (isobutane) with a global warming potential (GWP) below 3 (compression-type models), or they do not contain any refrigerant such as the Peltier-type (thermoelectric) models.

It is important to note that hotels can save the most energy by choosing a different approach altogether: An alternative to minibars in each room is an energy efficient vending machine or refrigerator available on the floor.

Procurement criteria

The following criteria can be inserted directly into tendering documents. The Topten selection criteria and the product lists are updated regularly. The newest versions are always available at www.topten.eu/pro.

SUBJECT: HIGHLY ENERGY-EFFICIENT MINIBARS AND WINE COOLERS

TECHNICAL SPECIFICATIONS

1. Energy class

Minibars and wine coolers must have at least the following energy efficiency class, declared according to the EU Energy Label.

CATEGORY	ENERGY CLASS
Minibars	C
Wine coolers	F

Verification

Bidders must supply the EU Energy Label and technical data according to EU Regulations No. 2019/2016 and No. 2019/2019.

2. Refrigerants

Appliances must use refrigerants with global warming potential below 3 such as R290 (propane), R600a (isobutane), or R717 (ammonia) for absorption-type. This means they are compliant with all coming stages of the EU F-Gas regulation No. 517/2014.

Verification

Bidders must supply the information on refrigerant type, charge in kg and global warming potential (GWP).

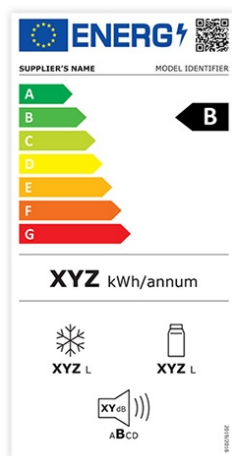
BACKGROUND FACTS

According to EU F-Gas Regulation No. 517/2014 domestic refrigerators and freezers that contain refrigerants with global warming potential of 150 or more are banned since 1 January 2015.

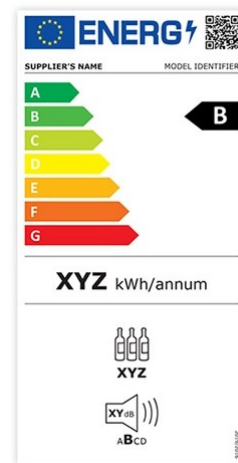
Energy efficiency class	Energy efficiency index
A	EEI ≤ 41
B	41 < EEI ≤ 51
C	51 < EEI ≤ 64
D	64 < EEI ≤ 80
E	80 < EEI ≤ 100
F	100 < EEI ≤ 125
G	EEI > 125

Note: The lower the value, the better the efficiency of the device

Minibars



Wine Coolers



According to EU Regulation No. 2019/2019 some refrigerating appliances cannot be placed on the market, as of March 1st 2021 and March 1st 2024:

		Maximum EEI	
		Mar'21	Mar'24
Minibar	<i>solid door</i>	300	250
	<i>transparent door</i>	380	300
Wine Cooler	<i>solid door</i>	155	140
	<i>transparent door</i>	190	172

FURTHER REMARKS

To increase savings and reduce environmental impact, procurers should evaluate life cycle costs when tendering for minibars and wine coolers. Thus, it is advisable to include in the tender a costing exercise - even if simple - for the product life cycle costs.

Table 1: Example of a breakdown costs table, to be filled in by bidders

	Information details	Different unit costs in € (excluding tax)	Total cost in € (excluding tax)
Delivery			
Installation			
Use*	Energy consumption in kWh/year x product life time (10 yrs) x n° units	Electricity cost**: 0,20 €/kWh	
Maintenance			
Recycling and disposal			

* Example of how use costs can be determined.

** This figure is just an example. The procurer can use the average electricity price paid during the last 2 or 3 years, and also include subscription fee and taxes.

Advice and support

If you would like further assistance in using the information presented here in your own procurement actions or more information on [Topten Pro](#) contact your national Topten team (find it on [Topten.eu](#)).

The European Commission's [Green Public Procurement](#) website contains valuable legal and practical guidance together with procurement criteria for a range of commonly procured products and services.



The elaboration of these procurement guidelines has been supported by funding from WWF Switzerland. The sole responsibility for the content of the Topten procurement guidelines lies with the authors.



Topten ACT has received funding from the [European Union's Horizon 2020 research and innovation programme](#) under grant agreement n°649647. The sole responsibility for the content of the Topten Pro procurement guidelines lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither EASME, nor European Commission and project partners are responsible for any use that may be made of the information contained therein.