

# Guidelines for Topten Public Procurers

## Drug Cabinets

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### Why follow Topten criteria?

- Topten.eu/pro ([www.topten.eu/pro](http://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 drug cabinets displayed on [www.topten.eu](http://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 for Drug Cabinets](#).
- 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?

The category drug cabinets, listed on [www.topten.eu](http://www.topten.eu), includes only plug-in appliances are shown, cabinets connected to a remote system are not considered.

Considering the following assumptions, it is possible to achieve the savings indicated in the next table.

Assumptions {  
 Life time expectation: 15 years  
 Electricity cost: 0,20 €/kWh

	Topten model	Inefficient model
Net volume (liter)	109	109
Refrigerator	R600a	R600a
Electricity consumption	273 kWh/year	546 kWh/year
<b>Use cost (electricity in 15 yrs)</b>	819 €	1,638 €
<b>Savings in 15 years</b>	<b>50% energy/unit 819 €/unit</b>	

Comparing models with similar net capacity, Topten models allow electricity savings, over 15 years, of almost 820 €/unit. Best models on [www.topten.eu](http://www.topten.eu) consume 50% less energy than inefficient models.

In addition, all Topten models use R600a (isobutane) with a global warming potential (GWP) below 3.

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## 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](http://www.topten.eu/pro).

**SUBJECT: HIGHLY ENERGY-EFFICIENT DRUG CABINETS**

### TECHNICAL SPECIFICATIONS

All drug cabinets on must fulfil the following criteria:

- plug-in
- climate-friendly natural refrigerant with global warming potential  $GWP \leq 3$  (e.g. R290/propane, R600a/isobutane, R744/CO<sub>2</sub>)
- Maximum Energy Efficiency Index (EEI) of 35, calculated according to EU regulation 2015/1094

Drug cabinets are not covered through any European energy regulation. Their technical details are very similar to professional storage refrigerators. For that reason, their EEI must be calculated according to the EU regulation 2015/1094 for professional storage refrigerators.

### **Verification**

Bidders must supply the EEI calculations and technical data according to EU Regulations No. 2015/1094.

## FURTHER REMARKS

To increase savings and reduce environmental impact, procurers should evaluate life cycle costs when tendering for drug cabinets. 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**

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

\* 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.

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## 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.



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