

Guidelines for Topten Public Procurers

Vacuum Cleaners

[Steffen Hepp](#), June 2021



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 vacuum cleaners 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 for Vacuum Cleaners](#).
- 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 vacuum cleaners, listed on www.topten.eu, includes upright and cylinder cleaners, with or without dustbag, and handhelds.

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

- Assumptions {
- Lifetime expectation: 10 years
 - 1 hour use per week
 - Electricity cost: 0.20 €/kWh

	Topten model	Inefficient model	Topten model	Inefficient model
Type	with bag	with bag	without bag	without bag
Power (W)	400	890	450	890
Electricity consumption	21 kWh/year	46 kWh/year	23 kWh/year	46 kWh/year
Use cost (electricity in 10 years)	42 €	93 €	47 €	93 €
Savings in 10 years	55% energy / unit ⇒ 51 € / unit		49% energy / unit ⇒ 46 € / unit	

The savings potential for a Topten model compared to an inefficient model are significant. A Topten vacuum cleaner with bag can save 55% of energy, one without bag 49%. Over the product life time of 10 years the savings add up to 51 € per unit and 46 € per unit respectively.

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 VACUUM CLEANERS

TECHNICAL SPECIFICATIONS

1. Power

Maximum rated Power: 650 Watt

Verification

Bidders must supply the technical data sheet with information on maximum power input.

FURTHER REMARKS

To increase savings and reduce environmental impact, procurers should evaluate life cycle costs when tendering for vacuum cleaners. 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*	Power input (kW), x hours of use per year x 10 years, x n° units	Electricity cost**: 0,20 €/kWh	
Maintenance			
Recycling and disposal			

* Example of how use costs can be determined. The variables for the costs calculation during the product life time can be stated by the procurer (according to the equipment replacement rate, its daily and annual use, etc.).

** 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.



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