

# Guidelines for Topten Public Procurers

## Comfort Fans

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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 comfort fans 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 Comfort Fans](#).
- 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 comfort fans, listed on [www.topten.eu](http://www.topten.eu), include a variety of commonly used fan types: tower fan, table fan, floor fan, standing fan, ceiling fan.

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

- Assumptions {
- Lifetime expectation: 15 years
  - Use in office environment with run time per year:  
400 h on-mode / 1400 h standby mode
  - Electricity cost: 0.20 €/kWh

	Topten model	Inefficient model
Type of fan	Standing	Standing
Power in Watt	35	50
Electricity consumption	14 kWh/year	20 kWh/year
<b>Use cost (electricity in 15 yrs)</b>	42 €	60 €
<b>Savings in 15 years</b>	<b>30% energy / unit ⇒ 18 € / unit</b>	

A very common fan is the standing fan. An efficient Topten model can save 30% of energy compared to an inefficient model, delivering a similar performance. Across the lifetime of 15 years, the efficient device can save roughly 18 € per unit.

The energy consumption is calculated assuming 400 h on-mode / 1400 h standby mode. The number of hours is based on the assumption the fan is used in an office or workplace.

## 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 COMFORT FANS**

### TECHNICAL SPECIFICATIONS

#### **Efficiency index according to EU eco-design regulation**

The efficiency index here corresponds to the Service Value (m<sup>3</sup>/min)/W. The fans have to meet at least the following efficiencies:

Type Fan	Service Value (m <sup>3</sup> /min)/W
Tower fan	≥ 0.45
Table fan	≥ 0.80
Floor fan	≥ 0.80
Standing fan	≥ 1.00
Ceiling fan	≥ 2.75

The efficiency index or Service Value is measured in (m<sup>3</sup>/min)/W and means the ratio of the maximum fan flow rate [m<sup>3</sup> /min] to the fan power input [W]. The higher the index, the more efficient the comfort fan.

#### **Verification**

Bidders must supply the efficiency index and technical data according to EU Regulations No. 206/2012. The values shall be declared according to IEC 60879.

To increase savings and reduce environmental impact, procurers should evaluate life cycle costs when tendering for comfort fans. 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>	Annual energy consumption, in kWh/year, x 15 years 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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