

Guidelines for Front Runner Public Procurers

Dishwashers

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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.
- All dishwashers 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 is developed under the Topten Act project, supported by the European Union through Horizon 2020 programme.

How much can you save?

The category dishwashers, listed on www.topten.eu, includes freestanding and built-in models, with different number of place settings. Considering the following assumptions, it is possible to achieve the savings indicated in the next table.

- Assumptions
- Lifetime expectation: 15 years
 - Water cost: 2,6 €/m³
 - Electricity cost: 0,20 €/kWh

	Topten model	Inefficient model	Topten model	Inefficient model
Type of installation / capacity	Freestanding / 13 place settings	Freestanding / 13 place settings	Built-in / 13 place settings	Built-in / 13 place settings
Energy class / drying class	A+++ / A	A+ / A	A+++ / A	A+ / A
Electricity consumption	234 kWh/year	295 kWh/year	155 kWh/year	295 kWh/year
Water consumption	2660 l/year	3080 l/year	2464 l/year	3080 l/year
Use cost (electricity and water in 15 years)	806 €	1004 €	561 €	1005 €



Savings in 15 years	20% energy + 13% water / unit 199 €/unit (energy + water)	47% energy + 20% water / unit 444 €/unit (energy + water)
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Topten models can consume about 47% less energy and 20% less water compared to inefficient models. This can lead to a saving of approximately 470€/unit in energy and water over their lifetime.

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 DISHWASHERS

TECHNICAL SPECIFICATIONS

1. Energy class

Dishwashers must have energy efficiency class A+++, according to European Energy Label.

2. Drying class

Models must have drying class A, according to European Energy Label.

3. Annual water consumption

The maximum annual water consumption is 2800 litres per year.

Verification 1-3

Bidders must supply a declaration regarding their product's energy and drying efficiency class and water consumption, supported by technical data and results from tests carried out in accordance with Commission regulation No. 1059/2010, based on the measurement standard EN 50242:2016 or equivalent, or a relevant third-party certification/Type I eco-label attesting to compliance.

NOTES ON IMPLEMENTATION

According to EU Regulation No. 1016/2010 some household dishwashers cannot be placed on the market.

Table 1: Overview of energy classes allowed on the European market



Currently

Minimum energy class A+	capacity ≥ 8 place settings
Minimum drying class A	capacity ≥ 8 place settings
Minimum drying class B	capacity ≤ 7 place settings

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

Table 2: 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*	Annual energy consumption, in kWh/year, x n ^o units Annual water consumption, in l/year, x n ^o units	Electricity cost**: 0,20 €/kWh Water cost**: 2,6 €/m ³	
Maintenance			
Recycling and disposal			

* Example of how use costs can be determined. In the EU regulation the annual energy consumption calculation considers 280 cleaning cycles, the left-on and off-mode consumption.

** 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.