**Guidelines for Front Runner Public Procurers**

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| Dishwashers  [Hélène Rochat](mailto:helene.rochat@topten.ch), November 2019 | Beschreibung: http://www.topten.eu/uploads/icons/detail/products/houshold/dishwasher/sn26.jpg |

# 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.
* All dishwashers 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**](https://www.topten.eu/private/selection-criteria/dishwashers).
* 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](http://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.

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| --- | --- |
| 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)** | |

Topten models can consume about 47% less energy and 20% less water compared to inefficient models. This can lead to a saving of approximatively 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**](http://www.topten.eu/professional.html)**.**

**Subject: Highly energy-efficient Dishwashers**

Technical Specifications

1. **Energy class**

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

1. **Drying class**

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

1. **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

|  |  |  |
| --- | --- | --- |
| http://www.staticwhich.co.uk/media/images/in-content2/dishwasher_label-315128.jpg | **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 nº units  Annual water consumption, in l/year, x nº units | Electricity cost\*\*: 0,20 €/kWh  Water cost\*\*: 2,6 €/m3 |  |
| **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](http://www.topten.eu/pro) contact your national Topten team (find it on Topten.eu).

The European Commission’s [Green Public Procurement](http://ec.europa.eu/environment/gpp/index_en.htm) website contains valuable legal and practical guidance together with procurement criteria for a range of commonly procured products and services.