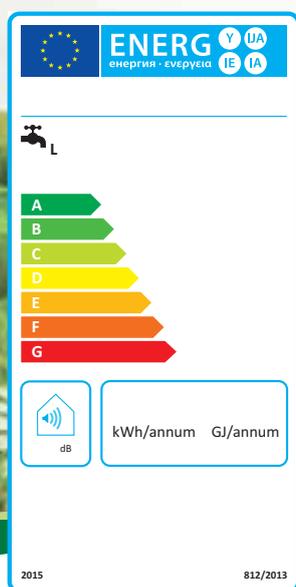


# Ecodesign ErP Labelling directive



According to the Ecodesign Directive, imposed by the European Union, manufacturers are obliged to put an energy label on their products as of September 26<sup>th</sup>, 2015. What does this labelling mean? And what can you expect from A.O. Smith?

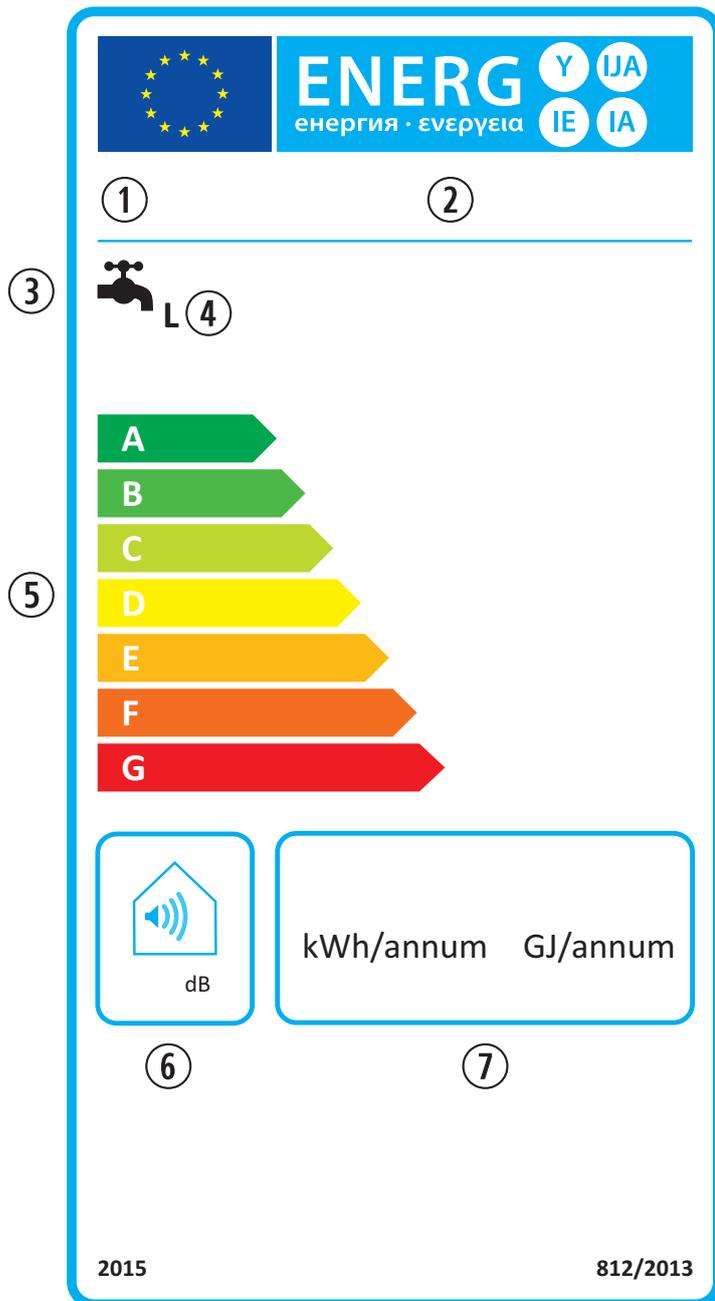
# European Ecodesign directive

The Ecodesign Directive from the European Union is a directive with mandatory environmental demands with regards to all energy-consuming and energy-related products. Within this directive more than 40 products (boilers, lamps, televisions, refrigerators, etc.) were identified to be collectively responsible for approximately 40% of the harmful emissions in Europe.

The purpose of the Ecodesign Directive is to compel manufacturers to reduce the energy use and other negative environmental influences of energy-consuming and energy-related products.

The Ecodesign Directive is designed as a framework. All defined product groups have specific requirements they must meet in the near future. The hot water and heating products will have to display the energy label by September 2015. And in the course of the next three years, the requirements will be stricter.

## Explanation label



- ① Name or logo of the manufacturer
- ② Name of the product
- ③ The application, hot water, is designated by the pictogram of a faucet
- ④ Load profile
- ⑤ The classification of the product
- ⑥ The noise level of the product in decibel
- ⑦ The output of the product in kWh/year and GJ/year

### Declared Load Profile on energy labels for water heaters

Under the Ecodesign directive, it is mandatory to declare the load profile of a water heater.

A load profile is the indication of the amount of hot water you can get in a specific timeframe. These profiles range in size from 3XS to 4XL. According to the Ecodesign Directive all products with an output <400kW and a capacity < 2000 litres should be tested using these profiles. However, in accordance with the Labelling Directive, labels are only required up to 2XL.

This means that a unit with an output of ≤70 kW, can only obtain an energy label of the maximum load profile of 2XL, even if the actual capability for the load profile of the unit is higher.

Products in this category are tested for both applicable load profiles (2XL and higher) but will still only be issued an energy label according to the 2XL load profile.

The technical information (test results) regarding the 2XL and the higher load profiles, will both be mentioned in the product fiche, spec sheet and instruction manual.

In all participating countries the label will have the same layout. A label for another product group may vary slightly.

## Which product groups are concerned?

Lot 1\*: CH and Combi boilers



- Products **up to 70 kW** will be labelled
- Products **between 70 and 400 kW** should be measured according to the Ecodesign Directive (this information will be found in the documentation), but are not labelled
- Products **> 400 kW** are not affected by the Ecodesign Directive

Lot 2\*: Water heaters



- Products **up to 70kW and < 500 litre** will be labelled
- Products **between 70 and 400 kW and 500 – 2000 litre** should be measured according to the Ecodesign Directive (this information will be found in the documentation), but are not labelled
- Products **> 400 kW and > 2000 litres** are not affected by the Ecodesign Directive

\* For both Lot 1 and 2, requirements will be stricter in the future.

Important key dates:

- **26 September 2015**: all products in the above mentioned product groups to be labelled
- **26 September 2017**: apply second level of efficiency requirements to lots 1 and 2
- **26 September 2018**: apply third level of efficiency requirements to lots 1 and 2 and introduce the limit the number of NOx emissions

## A.O. Smith and energy labelling

As a company A.O. Smith wants to contribute to a better environment. Therefore we closely follow, with various industry related associations, all developments of the European Union's legislation and guidelines.

The last couple of years a lot of effort was put into integrating the Ecodesign Directive. Being part of this process enabled us to implement this knowledge directly to our internal improvement process. Therefore many of our products are already compatible with this standard and seem to score high in the labelling categories.

Of course in our R&D department, all our current product developments to enlarge our product range, are already in line with the future, stricter demands of the Ecodesign Directive, such as the NOx guidelines.

# Energy label advantages for direct fired systems

Clear energy labelling of our products makes it transparent for our customers to choose which product, with matching energy consumption will suit their needs. To better define the best solution, it is important to understand the difference between direct fired and indirect fired systems.

An A-label on a direct fired water heater means that the unit is tested and qualified as a water heater for an A-label; i.e., producing hot water in a very efficient way.

An indirect fired water heating system consists of more products which are not designed as water heaters, but the combination makes it a water heating system. The separate units are tested and labelled independently for the designed use; a boiler is tested for heating purposes and a storage or indirect tank is tested as a storage tank.

Even though a boiler and a storage tank can each obtain an A-label, it does not mean that the combination used as a water heating system is an A-label system ( $A + A \neq A$ ).

## Contact

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Within A.O. Smith we highly value personal contact.  
To this end an extensive team of expert staff is available at all times.

Data subject to change