

Ecodesign for glandless standalone circulators and glandless circulators integrated in products

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CODDE

The European Commission has adopted the ecodesign regulation 641/2009 on glandless standalone circulators and glandless circulators integrated in products. The regulation sets requirements on energy efficiency and product information which should result in electricity saving of 42% by 2020, compared to the situation without taking any measures.



The regulation will enter into force the 10th of August 2009.

Scope of Products

Glandless standalone circulators and glandless circulators integrated in products.

Out of the scope:

- (a) *drinking water circulators, except as regards information requirements**
- (b) *circulators integrated in products and placed on the market not later than 1 January 2020 as replacement for identical circulators integrated in products and placed on the market no later than 1 August 2015. The replacement product or its packaging must clearly indicate the product(s) for which it is intended.*

Specific Requirements and Timescales

ENERGY EFFICIENCY REQUIREMENTS

- **From 1st January 2013**, glandless standalone circulators, *excepted those specifically designed for primary circuit of thermal solar systems and of heat pumps*, shall meet the following requirements: Energy Efficiency Index (EEI) ≤ 0.27
- **From 1st August 2015**, glandless standalone circulators and glandless circulators integrated in products shall meet the following requirements: Energy Efficiency Index (EEI) ≤ 0.23

PRODUCTS INFORMATION REQUIREMENTS

- **From 1st January 2013**
 - (1) the EEI of circulators shall be indicated on the name plate and packaging of the product and in the technical documentation as follows: 'EEI $\leq 0.[xx]$ ';
 - (2) the following information shall be provided: 'the benchmark for most efficient circulators is EEI ≤ 0.20 .';
 - (3) information concerning disassembly, recycling, or disposal at end-of-life of components and materials, shall be made available for treatment facilities;
 - (4) the following information shall be provided on the packaging and in the technical documentation of drinking water circulators: 'this circulator is suitable for drinking water only.'*

Manufacturers shall provide information on how to install, use and maintain the circulator in order to minimize its impact on the environment.

The information listed above shall be visibly displayed on freely accessible websites of the circulator manufacturers.

Opportunity for Environmental Impact Improvement

It is estimated that in 2005 annual energy consumption related to circulators amounted to **50 TWh**, corresponding to **23 Mt of CO₂** emissions. In the absence of specific measure this consumption is predicted to increase to **55 TWh in 2020**. This regulation will lead to annual energy consumption savings (EU-27) of about **23 TWh** by 2020. The savings are comparable to Bulgaria yearly electricity consumption, and correspond to approximately **11 Mt of avoided CO₂** emissions per year.

What Now?

Bureau Veritas CODDE, has been a key partner in the development of many of the Preparatory Studies, including the Television study. Our Bureau Veritas Environmental Impact experts worldwide can work with you to carry out the conformity Assessment according to internal design control system:

- Result of relevant environmental assessments (Life Cycle Assessment): Footprint using our EIME software
- Results of measurements: Energy Consumption Test

We can also advise on how to develop your process to comply with the EuP Directive and the many benefits of environmental impact assessment and improvement.

CONTACT US

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