

Commission Regulation (EU) No 547/2012 of 25 June 2012 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for water pumps (Text with EEA relevance)

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ANNEX I

Definitions applicable for the purposes of Annexes II to V

For the purpose of Annexes II to V, the following...
'Impeller' means the rotating component of a rotodynamic pump which...

ANNEX II

Ecodesign requirements for water pumps

1. EFFICIENCY REQUIREMENTS
 - (a) From 1 January 2013, water pumps shall have a minimum...
 - (b) From 1 January 2015, water pumps shall have:
2. PRODUCT INFORMATION REQUIREMENTS
 - (1) Minimum efficiency index: $MEI \geq [x,xx]$;
 - (2) Standard text: 'The benchmark for most efficient water pumps is...
 - (3) Year of manufacture;
 - (4) Manufacturer's name or trade mark, commercial registration number and place...
 - (5) Product's type and size identifier;
 - (6) Hydraulic pump efficiency (%) with trimmed impeller $[xx,x]$, or, alternatively,...
 - (7) Pump performance curves for the pump, including efficiency characteristics;
 - (8) Standard text: 'The efficiency of a pump with a trimmed...
 - (9) Standard text: 'The operation of this water pump with variable...
 - (10) Information relevant for disassembly, recycling or disposal at end-of-life;
 - (11) Standard text for water pumps designed only for pumping clean...
 - (12) Standard text for water pumps designed only for pumping clean...
 - (13) For pumps designed specifically for pumping clean water at temperatures...

- (14) Standard text: ‘information on benchmark efficiency is available at [www.xxxxxxxxxx.xxx]’;...
- (15) Benchmark efficiency graph for MEI = 0,7 for the pump based...
Figure Example of a benchmark efficiency graph for ESOB 2900

ANNEX III

Measurements and calculations

For the purposes of compliance and verification of compliance with...

The hydraulic pump efficiency, as defined in Annex I, is...

The formula for calculating the required minimum efficiency at best...

Where,

$x = \ln(ns)$; $y = \ln(Q)$ and $\ln...$

The value of C depends on the pump type and...

Table Minimum efficiency index (MEI) and its corresponding C-value depending...

The requirements for part load (PL) and over load (OL)...

$\eta_{PL \text{ min, requ}} = 0,947 \times \eta_{BEP \text{ min, ...}}$

$\eta_{OL \text{ min, requ}} = 0,985 \times \eta_{BEP \text{ min, ...}}$

All efficiencies are based on full (untrimmed) impeller. Vertical multistage...

ANNEX IV

Product compliance verification by market surveillance authorities

The verification tolerances defined in this Annex relate only to...

When verifying the compliance of a product model with the...

The Great Britain authorities shall verify one single unit of...

The Great Britain authorities shall use the measurement and calculation...

The Great Britain authorities shall only apply the verification tolerances...

Table 2 Verification tolerances Parameters Verification tolerances Efficiency at BEP...

ANNEX V

Indicative benchmarks referred to in Article 6

At the time of entry into force of this Regulation,...

Changes to legislation: There are currently no known outstanding effects for the
Commission Regulation (EU) No 547/2012. (See end of Document for details)

- (1) OJ L 285, 31.10.2009, p. 10.
- (2) OJ L 191, 23.7.2009, p. 26.
- (3) OJ L 204, 21.7.1998, p. 37.

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