

Necessary content of Technical Documentation

Electric water heaters and heat pump water heaters

Electric water heaters and heat pump water heaters are covered by ecodesign requirements according to ecodesign Regulation (EU) No 814/2013 and energy labelling requirements according to Regulation (EU) No 812/2013.

The requirements apply to electric water heaters and heat pump water heaters as described in Article 1 and 2 of the above mentioned Regulations.

The documentation shall be produced before the product is placed on the market.

The technical documentation shall be sufficient to enable assessment of the conformity of the product with the requirements. In this respect it is important that test reports are included in the technical documentation.

Technical documentation for electric water heaters and heat pump water heaters	
Demands	How to comply
Name and address of supplier	Company name and complete address.
General description	Description of the model so that it is easily identified (model name and number, size etc.).
List of applied standards	Applied measurement standards (harmonised standards and/or other standards).
Identification and signature of the person empowered to bind the supplier	Name and signature of the person responsible for the product.
Technical parameters, measurement and calculation results and precautions Apply to both ecodesign and energy labelling	<p>Technical parameters and measurement results</p> <ul style="list-style-type: none"> Daily electricity consumption Q_{elec} in kWh Indoor sound power level L_{WA} in dB <p>In addition, for water heaters for which the value of smart is declared as being "1" (if the smart control factor $SCF \geq 0.7$, the value of smart is 1, otherwise 0):</p> <ul style="list-style-type: none"> Weekly electricity consumption with smart controls $Q_{elec,week,smart}$ in kWh Weekly electricity consumption without smart controls $Q_{elec,week}$ in kWh <p>In addition, for heat pump water heaters:</p> <ul style="list-style-type: none"> Outdoor sound power level L_{WA} in dB <p>Results of calculations</p> <p>In accordance with methods set in ecodesign Regulation Annex IV and the energy labelling Regulation Annex VIII.</p> <p>Water heaters under average climate conditions:</p> <ul style="list-style-type: none"> Water heating energy efficiency η_{wh} in % Heat generator water heating energy efficiency $\eta_{wh,nonsol}$ in % Annual auxiliary electricity consumption Q_{aux} in kWh

Be aware of the rounding rules.

To be continued on the next page

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Demands	How to comply
	<p>Specific precautions</p> <p>State any specific precautions that should be taken when heater is assembled, installed or maintained.</p>
<p>Declared load profile, measurement results and product information</p> <p>Apply only to ecodesign</p>	<p>Declared load profile</p> <p>Declared load profile, in accordance with Regulation Table 1.</p> <p>Measurement results</p> <p>In addition, for storage water heaters with declared load profiles 3XS, XXS and XS:</p> <ul style="list-style-type: none"> Storage volume V in litres <p>In addition, for storage water heaters with declared load profiles M, L, XL, XXL, 3XL and 4XL:</p> <ul style="list-style-type: none"> Mixed water at 40 °C (V40) in litres <p>Product information</p> <ul style="list-style-type: none"> For heat generators designed for water heaters, and water heater housings, state their characteristics, requirements for assembly so it complies with ecodesign requirement, and where appropriate the list of combinations recommended. Information relevant for disassembly, recycling and/or disposal at end-of-life.
<p>Declared load profile and results of calculations</p> <p>Apply only to energy labelling</p>	<p>Declared load profile</p> <p>Declared load profile, in accordance with the Regulation Annex VII Table 3.</p> <p>Results of calculations</p> <p>In accordance with methods set in the Regulation Annex VIII.</p> <p>In addition, for water heaters under average climate conditions:</p> <ul style="list-style-type: none"> Annual electricity consumption AEC in kWh in terms of final energy <p>In addition, for heat pump water heaters under colder and warmer climate conditions:</p> <ul style="list-style-type: none"> Water heating energy efficiency η_{wh} in % Annual electricity consumption AEC in kWh in terms of final energy

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COMMISSION REGULATION (EU) No 814/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for water heaters and hot water

COMMISSION DELEGATED REGULATION (EU) No 812/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of water heaters, hot water storage tanks and packages of water heater and solar device

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This guide presents the contents of the Regulations and is addressed to manufacturers, importers and others interested. The guide is not a substitution for the Regulations, and in any case of doubt, the Regulations are applicable. This guide is not legally binding as a binding interpretation can only be made by the EU court.