

**NORDSYN SEPTEMBER 2015**

Packages of water heater and solar device are covered by energy labelling requirements according to Regulation (EU) No 812/2013. The requirements apply to packages of water heater and solar device as described in Article 1 and 2 of the above mentioned Regulation. 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.

Packages of water heater and solar device

This guide presents the technical documentation that you have to provide if the market surveillance authorities ask for it. There are however other information requirements and requirements on web-information that you always need to fulfil according to the regulations.

Technical documentation for packages of water heater and solar device

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.
Measurements results and technical parameters (Be aware of the rounding rules)	- Daily electricity consumption Q_{elec} in kWh - Declared load profile, in accordance with Regulation Table 3 - Indoor sound power level L_{WA} in dB In addition, for water heaters using fossil and/or biomass fuel: - Daily fuel consumption Q_{fuel} in kWh in terms of GCV 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): - Weekly fuel consumption with smart controls $Q_{fuel,week,smart}$ in kWh in terms of GCV - Weekly electricity consumption with smart controls $Q_{elec,week,smart}$ in kWh - Weekly fuel consumption without smart controls $Q_{fuel,week}$ in kWh in terms of GCV - Weekly electricity consumption without smart smart controls $Q_{elec,week}$ in kWh Solar water heaters: - Collector aperture area A in m^2 - Zero-loss efficiency η_0 - First-order coefficient a_1 in $W/(m^2K)$ - Second-order coefficient a_2 in $W/(m^2K)$ - Incident angle modifier IAM - Pump power consumption sol_{pump} in W - Standby power consumption $sol_{standby}$ in W

Technical documentation for packages of water heater and solar device

Demands	How to comply
	Heat pump water heaters : • Outdoor sound power level L_{WA} in dB • Hot water storage tanks • Storage volume V in litres • Standing loss S in W
Results of calculations (Be aware of the rounding rules)	In accordance with methods set in Regulation Annex VIII. Water heaters under average climate conditions: • Water heating energy efficiency η_{wh} in % • Annual electricity consumption AEC in kWh in terms of final energy In addition, for solar water heaters under average climate conditions: • Heat generator water heating energy efficiency $\eta_{wh, nonsol}$ in % • Annual auxiliary electricity consumption Q_{aux} in kWh In addition, for water heaters using fuels under average climate conditions, and solar water heaters and heat pump water heaters under colder and warmer climate : • Annual fuel consumption AFC in kWh in terms of GCV In addition, for solar water heaters under average, colder and warmer climate conditions : • Annual non-solar heat contribution Q_{nonsol} in kWh in terms of primary energy for electricity and/or in kWh in terms of GCV for fuels
	State any specific precautions that should be taken when the package of water heater and solar device is assembled, installed or maintained.

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.

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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