

Title of the measure:	LV39 Performance of Heat Boilers: Requirements of Green Public Procurement
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General description

Normative Standards for Performance of Heat Generators for Space Heating/Hot Water

In 26 September 2013 the new Commission Regulation (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters had come into force.

Latvia had used the transition period. Namely, up to 25 September 2015 the Latvia Cabinet of Ministers (Governmental) Regulations on Hot-Water Boilers [1] were in force. These Regulations were issued under the Law "On Conformity Evaluation" (*likums "Par atbilstības novērtēšanu"*) and implemented the requirements of the Directives 92/42/EEC, 93/68/EEC and 2005/32/EC.

These Governmental Regulations prescribed the essential requirements for water heating boilers, fuelled by gaseous or solid fuel, with nominal heat capacity in the range of 4 - 400 kW and used for heat supply, as well as prescribed the procedure for supervision of fulfilment of these requirements in the production of heat boilers before selling them in the internal market and the supervision of boilers' market. In general, the boiler had corresponded to the energy efficiency requirements if in its manufacturing the compliance was fulfilled with the requirements of standards published in the official EU Journal or with the requirements of such an organisation, which is registered in accordance with the EC Regulation Nr.76/2001 on EMAS procedure and the fulfilment of mentioned requirements were confirmed with the procedures of the conformity assessment. The essential requirements for energy efficiency were defined by the Annex 1 of the mentioned Regulations, see Table 1. These requirements came into force in 2004.

Table 1. Essential national requirements for boilers with nominal heat capacity in the range of 4 - 400 kW, period 2004-2015

No.	Type of boiler	Nominal heat capacity (output)	Net efficiency at nominal heat output		Net useful efficiency in part load (30% of nominal heat output)	
			Average water temperature	Requirements for net useful efficiency, in %	Average water temperature	Requirements for net useful efficiency, in %
1.	Standard hot-water boilers	4 - 400 kW	70 °C	$\geq 84 + 2 \log P_n$	≥ 50	$\geq 80 + 3 \log P_n$
2.	Low temperature hot-water boiler			$\geq 87.5 + 1.5 \log P_n$	40	$\geq 87.5 + 1.5 \log P_n$
3.	Flue gases condensing boilers			$\geq 91 + 1 \log P_n$	30**	$= 97 + 1 \log P_n$
P _n - nominal heat capacity (kW) ** water temperature in the input of boiler equipment						

Green Public Procurement

The requirements of green public procurement might be considered as the guidelines also by private sector owners when considering renovation of heating systems of residential buildings.

The current framework for the green public procurement is defined by the Section 19 of the Public Procurement Law [2]. According these provisions it is adopted the Cabinet of Ministers (Governmental) Regulations No 353 "Requirements of Green Public Procurement and the Procedure They shall be Applied" [3], which have come into force 01 July 2017. The heat boilers with the capacity up to 400 kW are included in the list of the groups of goods and services for which green procurement requirements and criteria might be applied voluntary (Annex 2 of [3]).



Requirements of Green Public Procurement [Annex 2 of [3]]		
Heat boilers with the capacity up to 400 kW to provide heat energy for heating system		
Technology	Minimum efficiency in heating season	Maximum specific GHG emissions, in CO ₂ equivalent
All heat boilers, except solid biomass fuel ones	$\eta_s \geq 90\%$	
Solid biomass fuel heat boilers	$\eta_s \geq 75\%$	
All heat boilers, except heat pump boilers		220 g CO ₂ eq./ 1 kWh heat power
Heat pump boilers		170 g CO ₂ eq./ 1 kWh heat power
Award points granted for each 1% efficiency improvement and for each 5 g CO ₂ eq./ 1 kWh heat power emissions decrease		

References

1. Cabinet of Ministers (Governmental) Regulations No 416 “Regulations regarding Hot-Water Boilers” (*Ministru kabineta noteikumi Nr. 416 "Noteikumi par ūdenssildāmajiem katliem"*), issued 22 April 2004, in force 2 May 2004 – 25 September 2105, published: “Latvijas Vēstnesis” 69 (3017), 01.05.2004. Amendments adopted by the Cabinet of Ministers (Governmental) Regulations No 111, 26.02.2008. **Historical** consolidated version available in Latvian: <http://likumi.lv/doc.php?id=87952>. English translation (amendments not included) available http://m.likumi.lv/saistitie.php?id=87952&saistitie_id=7
2. Public Procurement Law (*Publisko iepirkumu likums*), in force from 01 March 2017, <http://likumi.lv/ta/id/287760>
3. Cabinet of Ministers (Governmental) Regulations No 353 “Requirements of Green Public Procurement and the Procedure They shall be Applied” (*Ministru Kabineta Noteikumi Nr.353 "Prasības zaļajam publiskajam iepirkumam un to piemērošanas kārtība"*). Adopted 20 June 2017, in force from 01 July 2017. Published in Latvian: “Latvijas Vēstnesis”, 129 (5956), 30.06.2017, <https://m.likumi.lv/doc.php?id=291867>