

Energy Efficiency compliant Products 2014 (EEPLIANT 2014)

Summary Overview of Heater Testing

1 Introduction

An important activity of Work Package 6 is the testing of a number of heaters to check their compliance with the delegated regulation (EU) 811/2013 supplementing the Energy Labelling Directive and the delegated regulation (EU) 813/2013 implementing the Ecodesign Directive.

The two regulations covers a wide variety of heaters including space heaters and combination heaters with a rated output up to 70 kW. (In addition, the Ecodesign Directive also includes heaters with a rated output up to 400 kW.) This is a very wide scope so Work Package 6 has decided to limit itself to the following categories:

- Electric boilers for space heating with a rated output below 70 kW with hot water production.
- Gas boilers with a rated output below 70 kW with hot water production.
- Heat pumps with a rated output below 70 kW with hot water production.
- Gas boilers with a rated output between 70 and 400 kW.

The testing will comprise document inspections and laboratory testing. Regarding the big gas boilers (70 - 400 kW), the test will for practical reasons take place "in-situ" on an already installed boiler.

2 Number of Products

The agreed number of products can be seen in this table.

Product category	Document inspection	Laboratory testing
Electrical boilers <70kW	10	-
Gas boilers <70 kW	18	10
Heat pumps <70 kW	14	7
Gas boilers 70 - 400 kW	-	2

There are a number of interesting observations from the table:

- The document inspection is intended to serve as a "screening" that will hint the authorities to what products might be interesting to test at the laboratory. Therefore, the group will examine documents for a higher number of products than will be tested.
- The Work Package will only inspect documents for electrical boilers for space heating. No laboratory testing will take place for this group of products.
- The number of tests is generally determined by the available budget. In general, these tests are quite comprehensive, so the number of tested products will be limited.

07.10.2016

- The testing of the big gas boilers (70 - 400 kW) will take place in-situ and will be an exercise to validate the feasibility of a test method developed by a group of European laboratories some years ago. In general, the problem with this group of products is that they are very difficult to test: Only few test houses are able to do the test, and the boilers are hard to sample as they most often are made to order.

3 Progress with Activities

The document inspection is well on the way. The inspection activities have been completed for almost all heaters, and enforcement activities have started against heaters with non-compliant technical documentation.

Testing activities are progressing quite well:

- Small boilers. The laboratory was selected and contracted before summer. All 10 products have been sampled and sent to the laboratory. Testing of six products has been finalised, two are being tested and testing of the two last ones will start mid-October.
- Heat pumps. The laboratory was selected and contracted before summer. Six of the seven products have been sampled and sent to the laboratory. The seventh will be sent during October when it enters the market. Testing of the first four heat pumps has started, but testing is quite comprehensive taking up to 7 weeks, and the laboratory has run into delays due to trouble getting the correct settings for the heat pumps from the supplier. The first results are expected in November. Testing is presumed to be finalised before the end of the year.
- Big boilers (70-400 kW). The test will involve boilers in two countries (Denmark and UK) to explore whether the test protocol can be implemented by more than one test house. The laboratory for the Danish test has just been selected and will be contracted this month. The test will presumably take place this year. Work has begun to identify the laboratory for the UK test.

Disclaimer

This PROSAFE press release arises from the Action EEPLIANT 2014, which receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement number 649894.

The content of this press release represents the views of the author and it is his sole responsibility; it can in no way be taken to reflect the views of the *Executive Agency for Small and Medium Enterprises (EASME)* or any other body of the European Union. *EASME* does not accept responsibility for any use that may be made of the information it contains.

EEPLIANT project summary

The EEPLIANT project was designed to help deliver the intended economic and environment benefits of the Energy Labelling and Ecodesign Directives by increasing the rates of product compliance with them. The EEPLIANT project team, consisting of 13 Market Surveillance Authorities from across the EU, organises coordinated **monitoring, verification and enforcement** activities, including product testing of **LED lamps, printers and heaters**.

In addition to the product testing activities, the project also ensures an inspection of the products' technical documentation, defines market surveillance best practices and shares these among the participating market surveillance authorities, but also the other national and regional authorities within the EU, and ensures regular communication and awareness activities, targeting e.g. the professional stakeholders, the civic society, governments, etc.

More about the project: www.eepliant.eu and www.twitter.com/eepliant

How EEPLIANT works

Each of the product categories selected by the project has the following set of activities undertaken throughout the project:

- **Document inspection** - verification of the technical documentation which the suppliers have to make available to authorities upon their request - relevant for LED and boiler testing, the imaging equipment is regulated by the Energy Star requirements;
- **Screen testing** - undertaking of preliminary tests to identify and assess the likelihood that a certain model would fail full compliance testing;
- **Coordinated compliance testing** - full scale testing of a selected number of models, in part preselected from the range of models failing the screen testing stage.

For more information, see: <http://www.eepliant.eu/index.php/about-eepliant/description>

Background information

This information is issued by PROSAFE and the market surveillance authorities representing 12 EU Member States in the EEPLIANT 2014 Action.

The Action is coordinated by PROSAFE (Product Safety Forum of Europe), a non-profit organisation that brings together market surveillance officers from all over Europe and across the world. Visit www.prosafe.org to learn more. On this website you will also find more information about the other Joint Actions coordinated by PROSAFE.

Follow us!

Stay updated with the project activities, get in touch with the team for more details and do contact us for more information!

Follow us on Twitter: <https://twitter.com/eepliant>

Project website: <http://www.eepliant.eu/>

Contact us: <http://www.eepliant.eu/index.php/contact-us>