

## An important step towards the finalisation of EUP Lot 1

Dear Colleagues,

Yet another step towards the finalisation of the EUP Lot 1 was taken at a meeting organised by DG-TREN, 19 December, in Brussels. More than 20 technical experts representing the stakeholders were given the opportunity to raise their concerns on the technical aspects of the implementing measures and ECO-Boiler model presented by the Commission. Stephan Kolb, DG-TREN, acting as a host for the meeting made perfectly clear that the meeting would not touch on any political aspects such as the design of the label or limits on efficiency requirements for product rating. René Kemna, VHK, answered to all the detailed questions and demonstrated the use of the calculation tool. A summary of the discussions at the meeting will be given in the following. Please note that this summary is only based on our interpretation on what was discussed and should not to be mistaken for an official protocol. There was no official agenda for the meeting and thus no official minutes were taken.

### 1. Regarding test procedures

Mr. Kolb clarified that the requirements on test procedures proposed in Lot 1 will make reference to existing standards whenever applicable. However when appropriate standards are missing, the legal documents of the EUP-Directive will serve as an interim standard and a mandate will be given to the technical committees within CEN to accommodate for the procedures presented by the EUP-Directive. The Commission will look into the detailed comments on the test procedures that were handed in, by different stake holders.

### 2. Degradation factor

Several stake holders had provided comments regarding the degradation factor used for heat pumps in part load operation. The common statement regarding the degradation factor was that the use of a degradation factor equal to 0,25, as proposed by the Commission overestimates the decrease of efficiency in part load operation. The heat pump industry proposed that this degradation factor should be changed to 0,15. The proposed change was accepted by the Commission.

**Conclusion of discussion:** The degradation factor will be changed to 0,15.

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### **3. Sub system distribution-emission losses (L<sub>sys</sub>)-installation losses-**

The heat pump industry has made a strong remark on that the ECO-boiler model take into account for losses that are related to the installation of the heat generator in a building as such the heat pump industry has argued that these losses should not be part of the efficiency calculation of Lot 1.

Mr. Kolb explained that neither the Commission nor the Parliament will change this issue.

These losses affect the energy efficiency ( $\eta$ ) of all heat generators in the same way.

The Commission argues that the installation losses are included to link ECO boiler with EPBD (Article 8) and provide the end consumer with an abstract but realistic system value of the annual performance for the labelled product (the objective is to inform the consumer as good as possible of the real life performance of the installed generator).

The manufacturer of the generator (or his representative) who places the generator on the market declares the “devaluated energy efficiency” on the label of the generator. He is not responsible for the final performance of the installed generator. This responsibility stays by the installer. The installer informs the consumer on the energy class of the generator he is offering.

At this moment the Commission does not intend to impose a final energy label on the installer of his installation.

**Conclusion of discussion:** The sub system emission losses will be considered in the efficiency calculation, but minor changes might be possible to implement if proven necessary by stake holders.

The Commission made it clear that the ECO boiler Calculation Excel sheet has no legal frame and will not be legislation. Manufacturers and institutions are free to develop their own calculation as long as they are conform with ECO boiler.

#### **4. Set back and reheat**

Several remarks had been made on the proposed methodology on how to treat night set back and reheat. The EHPA has argued that, if set back and reheat is applied in a heat pump application the setting has to be made so as the maximum operating condition is never exceeded. Thus the reheat time for low temperature heat pump needs to be extended and set at a lower value than for other types of heating systems. After a long discussion on the topic it was concluded that a thorough analysis would be needed in order to make a proposal for changes on the treatment of night set back and reheat. A proposal for amendment will be sent by Remeha.

##### **Conclusion of discussion:**

The Commission will be provided with an analysis on set-back and reheat. A revision of the current treatment of night set back and reheat might be included if found justified by the analysis.

#### **5. Brine temperature**

The EHPA had argued that the use of a fixed brine temperature of 0°C for all climate zones does not reflect reality and resulting in that the annual performance of brine-water heat pumps will be underestimated. A Danish NGO argued that the brine temperature was set to high. After a short discussion the Commission stated that they will consider a change if the EHPA were able to provide the Commission with an independent study that justify a change.

##### **Conclusion of discussion:**

The EHPA was assigned to provide the Commission with an independent study on relevant brine temperatures in Europe. The study should be sent to the Commission at the latest by the end of January 2010.

## **6. Thermally driven heat pumps**

The Commission stated that they were pleased to the received comments from Robur. The Commission stated that they will look into the comments given and revise the model accordingly.

René Kemna announced that he has noted down all reported typing errors in the documents and “the bugs” in the software. Updated documents will be published on Circa. However it was decided that the update should only include a correction of these errors and not any of the proposed changes in the calculation method. Additionally Kemna announced that he will look into the calculation procedures regarding the temperature/heating curve and the methodology on how to interpolate the performance of heat pumps in between test points.

### **Next steps**

As it was concluded that there is a need to look into some outstanding issues once again. It was decided that another expert meeting is to be held in week 5, in February 2010.

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