

Our Service

The DVGW-Test laboratory Energy is already in possession of the new developed EN-PME-probe with the corresponding measuring equipment as well as the technical requirements.

We can perform the EN-PME measurement additional beside the regular PM measurement as part of an ordered initial type test.

The results of your tested appliance will be provided to the HKI for evaluation anonymously. Your advantage is the direct involvement in the project. Furthermore you will benefit from real measuring data of your appliance.

Our skills, expertise and technical potentials can help to prepare your products for future challenges.

We are happy to provide you with further information. Feel free to contact us.



Calibration of measuring equipment

Contact / Directions

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Your contact person



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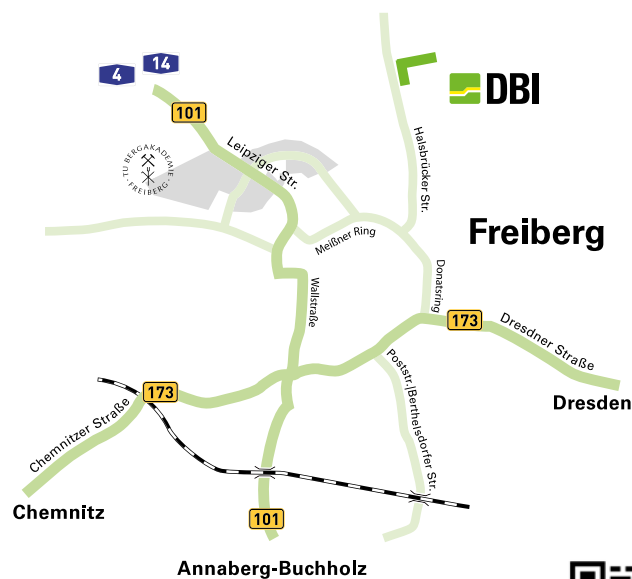
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pictures: HKI, DVGW - Roland Horn

NEW EUROPEAN PARTICLE MEASUREMENT METHOD EN-PME

www.dbi-gruppe.de



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Background

The EU regulation (EU) 2015/1185 on Eco-design requirements for solid fuel local space heaters contains three different methods for PM measurement (four if FFDT and ESP are regarded separately). The regulation will enter into force on 01.01.2022. The different methods are not defined clearly and the corresponding limit values for the evaluation of the appliances regarding PM is not in line with the current national methods.

As a matter of fact the limit values described in the Eco-design regulation for each PM measurement method are not comparable with each other.



Probe equipment of the PME-measurement

What is EN-PME?

In the standardization field (CEN/TC 295) there is already an agreement on a newly developed method called EN-PME as the uniform European method for PM measurement. The basis is the PM sampling with heated filter together with a parallel measurement of hydrocarbons with a FID at the same temperature level (180 °C).

The basic principle of the method was developed and tested in a European-wide scientific research project on a room heater burning wood logs and a pellet boiler. A final validation of the method will require further testing and verification.

This new measurement method is intended to replace and standardize the current PM-methods.



Aim & Content of the project

CEN TC295-WG5 has developed a plan for financing the project by industry and accredited / notified test laboratories. This is the only way to achieve the introduction of a single, unified European PM measurement method.

The estimated duration of the project is approx. 15 – 18 months. The project consists of:

- EN-PME measurement simultaneous with the initial type test
- Validation of the method on all types of appliances covered by the various European test standards of solid fuel local space heaters (ca. 150 appliances).
- Validation of the method on all types of solid fuel suitable for the aforementioned appliance types.
- Creation of a database of EN-PME measurement results with the aim to define a proposal for PM emission limit values

Costs for the additional EN-PME test will be subject of an agreement between client and test laboratory / notified body. Participating fireplace manufacturers will benefit by parallel involvement in the further development of the EN-PME method and collection of experience in the new single European method. Also these manufacturers will be involved in the further development of eco-friendly appliances.



Use our DBI test mark for your products. Do not hesitate to ask us about this topic.