

Labelling and testing of boilers

- Energy and environmental tests of boilers
- Documentation of operational performance of boilers
- The boiler labelling scheme

EU Energy Performance Directive

The regulations regarding energy load from the residential sector will continue to be tightened up during the years to come. This is true for newbuilds as well as for renovations. The more rigorous regulations will also involve the boiler and the interaction with the heating installation and the heat need of the home, respectively.

In future, the Danish homeowners and their advisers must focus increasingly on how to choose high-efficient boilers that fit the heat need of the household and at the same time interact satisfactorily with the heating installation. In practice, a satisfactory boiler installation may offer more architectural freedom. Perhaps the window area of the home can be increased without violating the energy regulations.

Energy and environmental tests of boilers

Since 1988, DGC - as the only Danish company - has performed accredited energy and environmental tests of domestic boilers. DGC has tested approx. 80 new boilers prior

to their market introduction.

DGC has performed a number of other tests to clarify how the individual boiler is working under the different operational conditions in practice.

The boiler tests cover:

- Energy efficiency
- Electricity consumption
- Emission
- Hot water comfort

Documentation of operational performance of boilers

When measuring the above mentioned boiler parameters DGC will also be able to give a rough estimate of or to make detailed calculations of how the individual boiler is expected to function in practice. This documentation may help to discover alternatives for optimization in connection with projecting, installation and operation of complete heating systems. In addition, the documentation may demonstrate areas of interest for further product development of the boiler.

The rough calculations can be done in only a few minutes on DGC's website by means of GASPRO

(Danish version of calculation software). The program can be used for carrying out a quick financial assessment of whether a boiler should be replaced in the home under consideration. If the user wants access to financial calculations with specific boilers, this opportunity is also available online on DGC's website.

DGC offers to help through the entire process of the detailed calculations of interaction of boiler, heating system and building envelope - from determination of needs and definition of task to calculation by means of BOILSIM (English version of calculation software) and documentation.

The boiler labelling scheme

Apart from testing, calculation and documentation, DGC runs the Energy labelling scheme for domestic boilers. This scheme offers an overview of the performance of the boilers available on the Danish market by means of few and precise facts about each boiler. DGC administers the scheme that is based on pan European measurement

procedures and supported by the gas companies, the authorities and the boiler suppliers' own organisations.

Other services

DGC offers a wide range of additional services, such as solutions to problems in installations (e.g. removal of noise in heating installations), demonstration of new equipment and training in the operation of boiler installations.



Contact us

If you have any questions to the subjects described on the product sheet or other DGC services, you are welcome to contact us:

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Profile

DGC is a specialized consultancy and development company within energy and environment. DGC's main focus area is gas utilization.

DGC offers consultancy, measurements, laboratory testing, training and certification.

DGC has its head office and laboratory in Hørsholm, north of Copenhagen and a local office in Aalborg.