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Plinski kotli za gretje - 1. del: Splošne zahteve in preskusi

Gas-fired heating boilers - Part 1: General requirements and tests

Heizkessel für gasformige Brennstoffe - Teil 1: Allgemeine Anforderungen und Prüfungen

Chaudières de chauffage central utilisant les combustibles gazeux - Exigences générales et essais

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Chaudières de chauffage central utilisant les combustibles gazeux - Exigences générales et essais

Heizkessel für gasformige Brennstoffe - Teil 1: Allgemeine Anforderungen und Prüfungen

This draft European Standard is submitted to CEN members for second unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 109.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (FprEN 15502-1:2011) has been prepared by Technical Committee CEN/TC 109 “Central heating boilers using gaseous fuels”, the secretariat of which is held by NEN.

This document is currently submitted to the second Unique Acceptance Procedure.

This document has been prepared under mandates M89/6 and M066, given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements as meant in article 3 of EU Directive 2009/142/EC, relating to appliances burning gaseous fuels and the verification methods valid for production and measurements, as meant in article 5.2 of EU Directive 92/42/EEC, relating to the efficiency requirements for new hot water boilers fired with liquid or gaseous fuels, with an output of 4 – 400 kW.

For relationship with EU Directive(s), see informative Annex ZA and ZB, which are integral parts of this document.

This document has been out for a first UAP from 2010-07-22 to 2010-12-22 (WI 00109038). This present document deals with the comments of that first UAP.

FprEN 15502-1:2011 (E)**Introduction**

A Gas-fired heating boiler is an appliance using gas as fuel designed to heat water with the purpose of providing heat to a building (or portion of a building) from one point to multiple rooms using heat emitters such as radiators and convectors to transmit the heat from the water to the room. The boiler may also be used to provide domestic hot water via an indirect hot water storage tank.

The basic function of Gas-fired heating boiler is to generate heat by direct heat transfer in a heat exchanger, from the combustion gasses to the water.

The boiler may include in one design more than one function. It may include for example:

- a sanitary hot water function;
- a function to supply the combustion air from the outside of the building;
- a function to dispose the combustion products to the outside of the building.

The boiler design may be supplied to the marketed in more than one part. If the boiler is supplied to the marketed in multiple parts, the boiler is the assembly of various parts according to the installation instructions.

Boilers may be designed to be connected to specific parts of a building. Especially connection to a chimney and the means of combustion air supply is relevant.

This European standard was established to deal with aspects related to:

- a) safety;
- b) rational use of energy;
- c) fitness for purpose.

This European Standard is a first part of a series of standards that will describe the special requirements for specific boiler types. This European Standard contains the common requirements that are applicable for the majority of the specific boiler types.

This European Standard is to be used in conjunction with the specific Part 2.

Matters related to quality assurance systems, tests during production, and certificates of conformity of auxiliary devices are not dealt with in this series of European Standards.

Annex V lists which existing standards are intended to be replaced by this standard in combination with the relevant Part 2. The standards listed in Annex V are to be used until the relevant Part 2 cover the types indicated. This European standard by itself does not replace any European standard.