



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 303-5:2021+A1:2022

Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology,

Heizkessel - Teil 5: Heizkessel für feste
Brennstoffe, manuell und automatisch
beschickte Feuerungen,
Nennwärmeleistung bis 500 kW - Begriffe,

Chaudières de chauffage - Partie 5 :
Chaudières spéciales pour combustibles
solides, à chargement manuel et
automatique, puissance utile inférieure



National Foreword

This European Standard EN 303-5:2021+A1:2022 was adopted as Luxembourgish Standard ILNAS-EN 303-5:2021+A1:2022.

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English Version

Heating boilers - Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW - Terminology, requirements, testing and marking

Chaudières de chauffage - Partie 5 : Chaudières spéciales pour combustibles solides, à chargement manuel et automatique, puissance utile inférieure ou égale à 500 kW - Définitions, exigences, essais et marquage

Heizkessel - Teil 5: Heizkessel für feste Brennstoffe, manuell und automatisch beschickte Feuerungen, Nennwärmeleistung bis 500 kW - Begriffe, Anforderungen, Prüfungen und Kennzeichnung

This European Standard was approved by CEN on 15 February 2021 and includes Amendment 1 approved by CEN on 14 September 2022.

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European foreword

This document (EN 303-5:2021+A1:2022) has been prepared by Technical Committee CEN/TC 57 “Central heating boilers”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 14 September 2022.

This document supersedes A1 EN 303-5:2021 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annexes ZA, ZB and ZC, which are an integral part of this document.

In comparison with EN 303-5:2012, the following technical changes have been made:

- the scope was extended to condensing boilers with a heat output of ≤ 500 kW;
- the scope was extended to boilers with outside combustion air supply at a heat output of ≤ 100 kW;
- requirements for materials, weld joints and wall thicknesses have been revised and adapted to condensing and room sealed operations;
- general and electrical safety requirements have been revised and adapted to condensing and room sealed applications;
- tests were revised and new tests for condensing boilers, outside combustion air supply, secondary emission reduction systems and safety requirements were added;
- Annexes were re-structured;
- Consideration was given to the essential requirements of the Machinery Directive 2006/42/EC and REGULATION (EU) 2015/1189 (Eco-design) and COMMISSION REGULATION (EU) 2015/1187 (Energy labelling).

The following structure is intended for the European Standards for heating boilers:

- EN 303-1, *Heating boilers — Part 1: Heating boilers with forced draught burners — Terminology, general requirements, testing and marking*;
- EN 303-2, *Heating boilers — Part 2: Heating boilers with forced draught burners — Special requirements for boilers with atomizing oil burners*;

- EN 303-3, *Heating boilers — Part 3: Gas-fired central heating boilers — Assembly comprising a boiler body and a forced draught burner*;
- EN 303-4, *Heating boilers — Part 4: Heating boilers with forced draught burners — Special requirements for boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar — Terminology, special requirements, testing and marking*;
- EN 303-5, *Heating boilers — Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW — Terminology, requirements, testing and marking*;
- EN 303-6, *Heating boilers — Part 6: Heating boilers with forced draught burners — Specific requirements for the domestic hot water operation of combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW*;
- EN 303-7, *Heating boilers — Part 7: Gas-fired central heating boilers equipped with a forced draught burner of nominal heat output not exceeding 1 000 kW*;
- EN 304, *Heating boilers — Test code for heating boilers for atomizing oil burners*.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This document is a type-C standard as stated in EN ISO 12100:2010.

The machinery concerned, and the extent to which hazards, hazardous situations and hazardous events are covered, are indicated in the scope of this document.

This document does deal with boilers which are within the Scope Machinery Directive and boilers that are outside of the Scope Machinery Directive.

The manufacturer is responsible for identifying all additional hazards outside of the scope of this document.

When provisions of this type-C standard are different from those which are stated in type-A or -B standards, the provisions of this type-C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type-C standard.