

Heating boilers - Test code for heating boilers for
atomizing oil burners

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 304:2017 sisaldab Euroopa standardi EN 304:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 304:2017 consists of the English text of the European standard EN 304:2017.
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English Version

Heating boilers - Test code for heating boilers for atomizing oil burners

Chaudières de chauffage - Règles d'essai pour les
chaudières pour brûleurs à fioul à pulvérisation

Heizkessel - Prüfregeln für Heizkessel mit
Ölzerstäubungsbrennern

This European Standard was approved by CEN on 2 July 2017.

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European foreword

This document (EN 304:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

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 supersedes EN 304:1992 and EN 15034:2006.

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

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

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1 Scope

This European Standard applies to the determination of the performances of heating boilers and combi boilers fired by liquid fuels. The requirements for the heating performances are laid down in EN 303-1:2017 and EN 303-2:2017.

This test code includes the requirements and recommendations for carrying out and evaluating the procedure for testing boilers and also the details of the technical conditions under which the tests will be carried out.

The requirements and the performance of testing for the sanitary hot water production of combi boilers are laid down in prEN 303-6.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 267:2009+A1:2011, *Automatic forced draught burners for liquid fuels*

EN 303-1:2017, *Heating boilers - Part 1: Heating boilers with forced draught burners - Terminology, general requirements, testing and marking*

EN 303-2:2017, *Heating boilers - Part 2: Heating boilers with forced draught burners - Special requirements for boilers with atomizing oil burners*

prEN 303-6, *Heating boilers - Part 6: Heating boilers with forced draught burners - Specific requirements for the domestic hot water operation and energy performance of water heaters and combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW*

EN 15456, *Heating boilers - Electrical power consumption for heat generators - System boundaries - Measurements*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 303-1:2017 and EN 303-2:2017 and the following apply.

3.1

minimum continuous heat output

$P_{\min C}$

lowest heat output which is maintained automatically by the control device in continuous operation which is specified for each type of fuel in accordance with the requirements of this European Standard

4 General conditions for testing

The performance tests of the boiler shall be carried out by a test laboratory complying with the requirements of EN ISO/IEC 17025.

The test sample shall correspond to a boiler as placed on the market including all parts and accessories necessary for the operation of the boiler. Boilers to be equipped with different burners shall be tested with one specified forced draught burner.