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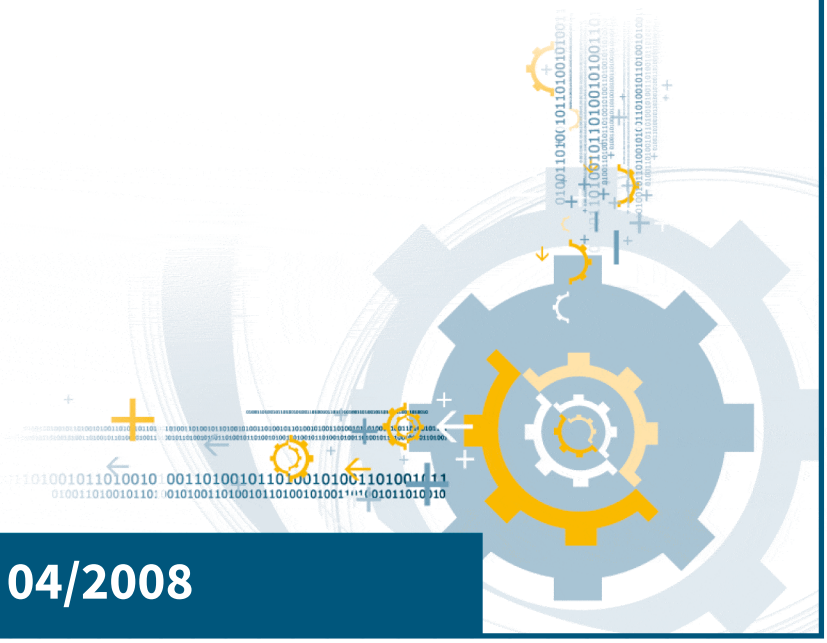
ILNAS-EN 15456:2008



04/2008

National Foreword

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 15456

April 2008

ICS 91.140.10

English Version

Heating boilers - Electrical power consumption for heat generators - System boundaries - Measurements

Chaudières de chauffage - Puissance électrique des générateurs de chaleur - Limites du système - Mesurages

Heizkessel - Elektrische Leistungsaufnahme für Wärmeerzeuger - Systemgrenzen - Messungen

This European Standard was approved by CEN on 29 February 2008.

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Ref. No. EN 15456:2008: E

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Foreword

This document (EN 15456:2008) 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of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

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

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Introduction

This document specifies the measurement methods for evaluating auxiliary power consumption. This document also provides the parameters for boilers necessary for the calculation of the total power consumption according to prEN 15316-4-1 [4].

1 Scope

This European Standard applies to heating boilers (e.g. with forced-draught burners (unit)) and burners equipped with a fan including all components specified by the manufacturer to be required for the designed boiler operation.

This European Standard also applies to heating boilers sold without burners.

This European Standard covers the required definitions, the system boundaries, the measurements for the determination of the electrical power consumption and, where applicable, the water side resistance in order to establish the electric auxiliary energy for:

— Oil-fired forced-draught burners in accordance with EN 267;

— Automatic forced-draught burners for gaseous fuels in accordance with EN 676;

— Flued oil stoves with vaporizing burners in accordance with EN 1;

— Heating boilers sold without burners for:

  — Oil-fired forced-draught burners in accordance with EN 303-1 [6], EN 303-2 [7] and EN 304;

— Condensing boilers for liquid fuels in accordance with EN 15034;

— Room sealed boilers for fuel oil in accordance with EN 15035;

— Heating boilers - Heating boilers with forced-draught burners - Nominal heat output not exceeding 10 MW and maximum operating temperature of 110 °C in accordance with EN 14394;

— Pellet burners for small heating boilers in accordance with EN 15270.

NOTE All measurements for boilers are carried out in the heating mode only. For hot water production this mode is also relevant.

2 Normative references

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

EN 1, *Flued oil stoves with vaporising burners*

EN 267, *Forced draught oil burners — Definitions, requirements, testing, marking*

EN 304:1992, *Heating boilers — Test code for heating boilers for atomizing oil burners*

EN 676, *Automatic forced draught burners for gaseous fuels*

EN 14394, *Heating boilers — Heating boilers with forced draught burners — Nominal heat output not exceeding 10 MW and maximum operating temperature of 110 °C*

EN 15034, *Heating boilers — Condensing heating boilers for fuel oil*

EN 15035, *Heating boilers — Special requirements for oil fired room sealed units up to 70 kW*