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STANDARD

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National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Fax: (01) 807 3838

OIL FIRED FORCED CONVECTION AIR HEATERS - STATIONARY AND TRANSPORTABLE FOR SPACE HEATING

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EUROPEAN STANDARD

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English version

Oil fired forced convection air heaters - Stationary and transportable for space heating

Générateurs d'air chaud à convection forcée fonctionnant au fioul domestique - Fixes et transportables pour le chauffage des locaux

Ölbefeuerte Warmlufterzeuger - Ortsfest und ortsbeweglich für die Raumheizung

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Foreword

This document (EN 13842:2004) 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of an identical text or by endorsement, at the latest by January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

This document includes a Bibliography.

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

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1 Scope

This document specifies the requirements and test methods for the safety and efficiency of oil-fired air heaters using only forced draught oil burners, hereafter referred to as “appliances”.

This document applies to stationary and portable appliances. It also applies to appliances intended for outdoor installation. Provision of the heated air may be by means of ducting or may be directly into the heated space.

For the purpose of this document the heat generation is by the combustion of liquid fuel oils as defined in EN 267 (gas oil with a viscosity at the burner inlet of 1,6 mm²/s (cSt) up to 6 mm²/s (cSt) at 20 °C). Alternatively, if the manufacturer requests, the fuel of kerosene may be used as defined in EN 304. Kerosene with a viscosity at the burner of 1,3 mm^2/s (cSt) to 2,9 mm^2/s (cSt) at 20 °C) or other suitable liquid fuel oils may also be used.

This document does not apply to:

— appliances intended for use in a single unit residential dwelling;

— appliances of the condensing type;

— appliances with atmospheric burners without a fan to assist the transportation of combustion air;

— dual purpose air conditioning appliances (heating and cooling);

— appliances where the air is heated by an intermediate fluid;

— appliances fitted with manual or automatic flue dampers;

— appliances having multiple heating units with a single flue;

— appliances fitted with more than one flue outlet.

This document is applicable to appliances which are intended to be type tested.

NOTE Requirements for appliances which are not type tested would need to be subject to further consideration.

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 230, *Monobloc oil burners — Safety, control and regulation devices and safety times.*

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

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

prEN 50156-1, *Electrical equipment for furnaces and ancillary equipment — Part 1: Requirements for application design and installation.*

EN 60335-1:2002, *Household and similar electrical appliances — Safety — Part 1: General requirements (IEC 60335-1:2001, modified).*

EN 60529, *Degrees of protection provided by enclosures (IP code) (IEC 60529:1989*).

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