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Automatic forces draught burners for liquid fuels

Automatische Brenner mit Gebläse für flüssige Brennstoffe

Bruleurs automatiques a air soufflé pour combustibles liquides

Ta slovenski standard je istoveten z: EN 267:1999/prA1

SIST EN 267:2000/oprA1:2006

en

ICS

English Version

Automatic forces draught burners for liquid fuels

Brûleurs automatiques à air soufflé pour combustibles
liquides

Automatische Brenner mit Gebläse für flüssige Brennstoffe

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 47.

This draft amendment A1, if approved, will modify the European Standard EN 267:1999. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

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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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Foreword

This document (EN 267:1999/prA1:2006) has been prepared by Technical Committee CEN/TC 47 “Atomizing oil burners and their components - Function - Safety - Testing”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

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 Annex ZA which is an integral part of this document.

ANNEX J
(normative)

**Requirements for burners being a machinery according to EU Directive
98/37/EC**

prEN 267:2005 together with Annex J meets the requirements of EU directive 98/37/EC. Table ZA.1 shows the referring clauses in the standard and in Annex J to EU directive 98/37/EC.

Introduction

As all burners covered by this standard come under the scope of EU directive 98/37/EC; all requirements of this standard and Annex J shall apply.

This document is a type C standard as stated in EN 1070.

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

J.1 Scope

according to clause 1 and addition:

Burners according to this standard are machines or components covered by the scope of EU directive 98/37/EC.

The risk philosophy adopted in this standard is based on the analysis of hazards on account of the application of burners as machinery according to EU directive 98/37/EC.

This standard together with Annex J deals with all significant hazards, hazardous situations and events relevant to burners, when they are used as intended and under the conditions foreseen by the manufacturer.

Any residual hazards are identified and communicated to the user where appropriate.

Depending on the installation situation additional requirements may apply to cover the risks arising from traffic, wind, earthquake loading and external fire.

This standard specifies the requirements to be met by the manufacturer to ensure the safety of persons and property during commissioning, start-up, operation, shut-down and maintenance, as well as in the event of foreseeable faults or malfunctions. It specifies the safety requirements at stages in the life of the equipment, and its design, ordering, construction and use.

This document is not applicable to burners which are manufactured before the date of publication of this document by CEN.

J 4.4.1 General Design

according to 4.4.1 and addition:

The design of the burner shall be such that it can be handled safely. It shall be designed and packaged so that it can be stored safely and without damage.

Where the weight, size or shape of the burner or its components prevents them from being moved by hand, they shall be fitted with means to lift them easily.

The design and the construction of the burner shall be for automatic on/off or automatic operation without the need of manual interaction.

J.4.4.2 Accessibility for maintenance and use

according to 4.4.2 and addition

The moving parts of burners must be designed, built and laid out to avoid hazards or, where hazards persist, fixed with guards or protective devices in such a way as to prevent all risk of contact which could lead to accidents.

All necessary steps must be taken to prevent accidental blockage of moving parts involved in the work. In cases where, despite the precautions taken, a blockage is likely to occur, manufacturers instructions and possibly a sign on the burner should be provided by the manufacturer to enable the equipment to be safely unblocked.

J.4.5.2 Electrical safety

Comprehensive instruction shall be given by the manufacturer about the requirements for the electrical equipment and connection of the burner and which standard of prEN 50156-1 or EN 60 335-1 is applicable.

NOTE EN 60335-1 stands for household application and similar use which includes appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms.

J.4.6 Functional and operational requirements

J.4.6.17 Surface temperatures

Surface temperatures of burner parts reachable for the user shall not exceed 60 K above the ambient temperature. If the temperature exceeds these limits caused by application conditions warnings or protection measures shall be provided.

J.4.6.18 Automatic operation

Prior to the automatic operation of the burner it shall be commissioned as declared in 7.4 by the manufacturer.

J.7.3 Other marking

The burner shall be marked with:

— the CE-mark;

J.7.4 Instructions for installation, adjustment, maintenance and operation

according to 7.4 and addition:

The instruction shall include the information about the electrical safety of the equipment, handling, packaging and transportation.

If there are different operation modes possible, they shall be clearly identified and described in the instructions.

The instruction shall include information about the burner emission of airborne noise (e.g. prEN 15036-1) and the possibilities of means of reducing this noise.

If error of fittings may cause a hazard to operation of the burner or to the operator, preventive measures shall be described in the instructions.

The instruction handbook shall contain details of inspection intervals and periodic checking procedures for:

- leak tightness of the pipework of the burner. Periodic checking of leak tightness should be carried out at intervals to be determined by consideration of the operating conditions, fuel type and material of construction;
- all safety equipment, especially automatic burner control systems, warning devices and safety shut-off valves;
- combustion quality (e.g. temperatures and/or combustion products analysis), if applicable.
- safety functions in order to ensure that these functions are not impaired by concealed faults or errors;
- safety function of the safety chain of burner/fired appliance combination.

The instruction handbook shall also contain the conditions and checking intervals for automatic burner control system devices for continuously operated burners, including a description of the measures to be taken for corrective action.

A documentation form shall be included in which the date, the results and the person who carried out the checks are recorded together with the date of the next inspection.

Warning notes shall be made in the hand book.

Each burner shall only be installed, set-up, adjusted and maintained by trained suitably certified personnel. Adequate warnings shall be made.