



SLOVENSKI STANDARD

SIST EN 442-3:1997

01-avgust-1997

Ogrevala in konvektorji - 3. del: Vrednotenje skladnosti

Radiators and convectors - Part 3: Evaluation of conformity

Radiatoren und Konvektoren - Teil 3: Konformitätsbewertung

Radiateurs et convecteurs - Partie 3: Evaluation de la conformité

Ta slovenski standard je istoveten z: EN 442-3:1997

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ICS:

91.140.10	Sistemi centralnega ogrevanja	Central heating systems
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EUROPEAN STANDARD

EN 442-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1997

ICS 91.140.10

Descriptors: heaters, heat radiators, convectors, calorific power, utilization, safety, marking, labelling, conformity tests, testing laboratories, certification

English version

Radiators and convectors - Part 3: Evaluation of conformity

Radiateurs et convecteurs - Partie 3: Evaluation de la conformité Radiatoren und Konvektoren - Teil 3: Konformitätsbewertung

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

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This European Standard has been prepared by Technical Committee CEN/TC 130 "Space heating appliances without integral heat sources", the secretariat of which is held by UNI.

This draft European standard of radiators and convectors consists of the following parts:

- EN 442-1 Radiators and convectors - Part 1: Technical Specifications and requirements
- EN 442-2 Radiators and convectors - Part 2: Test methods and rating
- EN 442-3 Radiators and convectors - Part 3: Evaluation of conformity

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of an identical text or by endorsement, at the latest by November 1997, and conflicting national standards shall be withdrawn at the latest by November 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.



Introduction

This European standard results from the recognition that the heating appliances falling into the scope hereinafter stated are traded on the basis of their thermal output.

To evaluate and compare different appliances, it is therefore essential to refer to a single stipulated value, hereinafter called the standard thermal output.

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1 Scope

This Standard specifies the procedures for evaluating the conformity of radiators/convectors to EN 442-1. It specifies the procedures and methods for the initial evaluation and the controls required to maintain conformity.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- SIST EN 442-3:1997
<https://standards.iteh.ai/catalog/standards/sist/en-442-3-1997/3016d8a3667c/sist-en-442-3-1997>
- EN 442-1:1995 Radiators and convectors - Part 1:
Technical specifications and requirements
- EN 442-2:1996 Radiators and convectors - Part 2:
Test methods and rating
- EN 45001 General criteria for the operation of testing
laboratories

3 Evaluation of conformity

The conformity of the radiator/convector model or type to EN 442-1 shall concern :

Thermal output
Safety in use
Catalogue data
Marking and labelling

4 Initial attestation

4.1 Thermal output

4.1.1 The manufacturer shall obtain verification of the thermal output of the radiator/convector model or type to EN 442-2 from an accredited testing laboratory (see EN 45001) of his choice.

4.1.2 The models to be tested for determining the thermal output of the type shall be selected according to 5.2 of EN 442-2:1996.

4.1.3 The samples for test shall be selected according to 5.3 of EN 442-2:1996.

4.1.4 The manufacturer shall submit to the testing laboratory the product drawings and data specified in 5.3 of EN 442-2:1996.

4.1.5 The testing laboratory shall issue a test report to the manufacturer as shown in Annex E of EN 442-2:1996.

4.2 Safety in use

4.2.1 The manufacturer shall obtain verification of the strength pressure test to 5.3 of EN 442-1:1995 from an accredited testing laboratory of his choice.

The manufacturer shall state the maximum operating pressure of the radiator/convector.

The samples for pressure test shall be those previously used by the laboratory for determining the thermal output.

The test laboratory shall issue a report stating the results of the strength pressure test for each sample.

4.2.2 The manufacturer shall attest the material specifications and thickness of wet surface according to 5.1 of EN 442-1:1995.

4.2.3 The manufacturer shall attest that the pretreatment and paint process comply with requirements of clause 4 of EN 442-1:1995.

4.3 The manufacturer shall provide the minimum catalogue data according to clause 7 of EN 442-1:1995.

4.4 The manufacturer shall ensure that the marking and labelling of the radiator/convector comply with the requirements of clause 8 of EN 442-1:1995.

4.5 The initial attestation of conformity shall be valid until any change is made to the design of the model or type or any change is made to the manufacturing process having an influence on the thermal output (see 5.3.2 of EN 442-2:1996).

When the samples submitted to the testing laboratory for verification of thermal output are prototype appliances (that is appliances for which the manufacturing process does not reflect the normal manufacturing process or tolerances) the initial attestation shall be valid for a period of 12 months.

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5 Maintenance of Conformity

The manufacturer shall institute a system of quality assurance to ensure that :

- the products maintain conformity with the requirements of EN 442-1;
- the measured thermal output of a production radiator/convector is not less than the catalogue output, within a tolerance (S_m) of 4 %.

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