

SLOVENSKI STANDARD
SIST EN 60335-2-47:2003/A11:2012
01-junij-2012

Gospodinjski in podobni električni aparati - Varnost - 2-47. del: Posebne zahteve za komercialne električne kotle - Dopolnilo A11

Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-47: Besondere Anforderungen für elektrische Kochkessel für den gewerblichen Gebrauch

Appareils électrodomestiques et analogues - Sécurité - Partie 2-47: Règles particulières pour les marmites électriques à usage collectif

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Ta slovenski standard je istoveten z: EN 60335-2-47:2003/A11:2012

ICS:

97.040.20	Štedilniki, delovni pulti, pečice in podobni aparati	Cooking ranges, working tables, ovens and similar appliances
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SIST EN 60335-2-47:2003/A11:2012 **en,fr**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60335-2-47/A11

April 2012

ICS 97.040.20

English version

**Household and similar electrical appliances -
Safety -
Part 2-47: Particular requirements for commercial electric boiling pans**

Appareils électrodomestiques et
analogues -
Sécurité -
Partie 2-47: Règles particulières pour les
marmites électriques à usage collectif

Sicherheit elektrischer Geräte für den
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This amendment A11 modifies the European Standard EN 60335-2-47:2003; it was approved by CENELEC on 2011-12-21. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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

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

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

This document (EN 60335-2-47:2003/A11:2012) has been prepared by CLC/TC 61, "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the amendment has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2012-12-21
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2014-12-21

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012, EN 60335-2-47:2003 and EN 60335-2-47:2003/A1:2008.

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

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

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

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Introduction

Replace the addition of CENELEC common modifications by the following:

The principle objectives of Low Voltage Directive, 2006/95/EC, are covered in this standard. The essential safety requirements of the Machinery Directive 2006/42/EC have also been taken into account for appliances covered by this part.

1 Scope

Add the following paragraph before NOTE 101:

Additional requirements for appliances with power driven moving parts are given in Annex ZE.

Replace the NOTE 103 by the following:

This standard does not apply to

- machines designed exclusively for industrial purposes,
- machines intended to be used in locations where a corrosive or an explosive atmosphere is present (dust, vapour or gas),
- continuous process machines for the mass production of food,
- **boiling pans** designed for induction heating,
- machinery for processing cosmetics, chemicals and pharmaceutical products.

3 Definitions

Replacement:

3.101

boiling pan

an appliance in which liquids contained in a vessel are heated to boiling point as part of a cooking process. The pressure within the vessel can exceed atmospheric pressure

3.108

installation wall

a fixed construction containing supply facilities for wall mounted appliances on one or both sides

5 General conditions for the tests

5.5 Addition:

The appliance is filled with water at $15\text{ °C} \pm 5\text{ °C}$ to the indicated level.

Appliances with more than one programme are operated with the most severe programme. In addition, any control intended to be operated by the user is set at maximum until the water boils or the operating temperature is reached. The control is then adjusted to the lowest setting that maintains boiling or the operating temperature. Lids and covers are in position and closed.

Motors incorporated in the appliance are operated in the intended manner under the most severe conditions that can be expected in normal use.

7 Marking and instructions

7.12 Add the following text before the second paragraph:

The front cover of the instructions shall include the substance of the following:

CAUTION: Read the instructions before using the machine.

This wording may be replaced by symbols ISO 7000-0434 and ISO 7000-0790.

Add the following text before the first paragraph of the addition:

If symbols IEC 60417-5021, ISO 7000-0434 and ISO 7000-0790 are used on the product or in the instructions, their meaning shall be explained.

Delete the second paragraph of the addition.

Add the following:

The instructions shall also state the maximum weight of the empty appliance.

7.12.1 Replace the last paragraph of the replacement by the following:

For appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly if disconnected or not used for long periods, or during the initial installation, the instructions shall give recommendations regarding the rating and type of the additional **protective devices**, such as residual-current device(s), to be installed.

Bibliography

Add the following references:

EN 614-1:2006 + A1:2009, *Safety of machinery – Ergonomic design principles – Part 1: Terminology and general principles*

EN 614-2:2000 + A1:2008, *Safety of machinery – Ergonomic design principles – Part 2: Interactions between the design of machinery and work tasks*

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Annex ZE (normative)

Specific additional requirements for appliances and machines with power driven moving parts and intended for commercial use

The following modifications to this standard are applicable for appliances and machines with power driven moving parts and intended for commercial use.

NOTE The additional paragraphs to Annex ZE of Part 1 are numbered starting with ZE.101.

Introduction

Replacement:

For the verification of compliance of appliances or machines intended for commercial use with the Essential Health and Safety Requirements (EHSR) of the Directive 2006/42/EC, the requirements in this Annex ZE shall apply.

1 Scope

This annex deals with additional requirements concerning appliances and machines intended to be used by experts or trained users for example in restaurants, canteens, hospitals and commercial enterprises such as bakeries, butcheries, etc and appliances and machines which are declared to be for commercial use by lay persons.

Products covered by this standard do not create a noise hazard, therefore no specific provisions concerning noise are given.

2 Normative references

Add the following normative reference

EN ISO 14159:2008, Safety of machinery - Hygiene requirements for the design of machinery (ISO 14159:2002)

3 Definitions

This clause of Annex ZE of Part 1 is applicable.

4 General requirement

This clause of Annex ZE of Part 1 is applicable.

7 Marking and instructions

This clause of Annex ZE of Part 1 is applicable except as follows:

7.12 Modification

Add following dashed items:

- the intended use of the appliance as covered by the scope of this standard;
- instructions regarding user maintenance and operation of the appliance and, if necessary, instructions for the training of operators;
- instructions designed to enable adjustment and maintenance to be carried out safely, including the protective measures that should be taken during these operations;
- the conditions under which the appliance is stable during use, dismantling when out of use, testing or foreseeable breakdowns;
- the operating method to be followed in the event of accident or breakdown to prevent unsafe actions;
- information regarding the use of personal protection equipment in case of spreading hot food stuff;
- warning concerning possible slippery floor adjacent to the appliance.

7.12.Z1 Replace the sixth dashed item by the following:

- on airborne noise emissions, the A-weighted sound pressure level is below 70 dB(A).

Add the following subclause:

7.12.ZE.101 The instructions shall include the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance. At least, it shall include the substance of the following.

WARNING: Appliances must be disconnected from their power supply during cleaning or maintenance and when replacing parts.

21 Mechanical strength

This clause of Annex ZE of Part 1 is applicable.

22 Construction

This clause of Annex ZE of Part 1 is applicable except as follows:

22.ZE.1

This clause of Annex ZE of Part 1 is not applicable.

22.ZE.5

Replace the second paragraph of the test specification by:

*The **guard** is opened at the extent needed to cause the interlocking to operate and is then closed. This operation is carried out for 5 000 cycles at a rate of 5 cycles per min.*

Replace the following subclauses by the following:

22.109 Hinged lids shall be constructed so that they cannot close accidentally.

Compliance is checked by inspection and by manual test.

NOTE This requirement may be met, if the hinge incorporates a click stop, the lid is counter balanced or the lid can be opened through an angle of at least 100°.

22.110 Appliances with tilting vessels or lifting baskets shall be provided with a mechanism that prevents accidental tilting or lifting from any position.

If the vessel is tilted or the basket lifted by means of an electric motor, it shall only be possible for this motor to function if the pressure is maintained on the control buttons or switches. The buttons or switches shall be located and protected in such a way that they cannot be operated accidentally.

If the vessel is tilted manually, it shall not be possible to adversely influence the tilting action other than by the intended means.

Compliance is checked by inspection and by applying a force of 340 N at any point to the pan. The pan shall not move, the play of the gear is disregarded.

22.ZE.101

Controls shall be

- clearly visible and identifiable,
- positioned within easy reach of the operator's hand,
- secured against accidental actuation, if their actuation could result in a hazard.

Compliance is checked by inspection and by manual test if necessary.

22.ZE.102

Lids shall be equipped with at least one handle. Handles shall be placed in such a way that scalding by steam is prevented when the lid is opened.

Compliance is checked by functional test.

22.ZE.103

Appliances for permanent connected water supply shall withstand an allowable inlet water pressure of at least 600 kPa.

Compliance is checked as follows:

The appliance is subjected to a static pressure equal to twice the allowable inlet water pressure up to at least 1 200 kPa (12 bar), for a period of 5 min.

During the test, there shall be no leakage from any part of the appliance, including the inlet water hose.

22.ZE.104

Filling and draining taps shall be designed and constructed so that it is not possible to inadvertently open them.

Compliance is checked by inspection and by manual test.

NOTE For example, this requirement is met when the valve handle is such that, when released, it returns automatically to the closed position or is of the wheel type or is placed in a recess.

22.ZE.105 Appliances shall comply with the hygiene requirements.

Compliance is checked by inspection and by the requirements of EN ISO 14159.

Compliance is checked by inspection.

22.ZE.106 Appliances shall meet ergonomic principles.

Compliance is checked by inspection

NOTE Guidance may be found in EN 614-1 and EN 614-2.

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