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Household electric cooking appliances - Part 2: Hobs - Methods for measuring performance

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/18

Obsahuje: EN 60350-2:2018, IEC 60350-2:2017

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EUROPEAN STANDARD

EN 60350-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2018

ICS 97.040.20

Supersedes EN 60350-2:2013

English Version

Household electric cooking appliances -
Part 2: Hobs - Methods for measuring performance
(IEC 60350-2:2017 , modified)

Appareils de cuisson électrodomestiques -
Partie 2: Tables de cuisson - Méthodes de mesure de
l'aptitude à la fonction
(IEC 60350-2:2017 , modifiée)

Elektrische Kochgeräte für den Hausgebrauch -
Teil 2: Kochfelder - Verfahren zur Messung der
Gebrauchseigenschaften
(IEC 60350-2:2017 , modifiziert)

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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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 60350-2:2018**European foreword**

The text of document 59K/293/FDIS, future edition 2 of IEC 60350-2, prepared by SC 59K "Performance of household and similar electrical cooking appliances" of IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60350-2:2018.

A draft amendment, which covers common modifications to IEC 60350-2 (59K/287/CDV), was prepared by CLC/TC 59X "Performance of household and similar electrical appliances" and approved by CENELEC.

The following dates are fixed:

latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-07-19
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latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2021-01-19
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This document supersedes EN 60350-2:2013.

An Excel 97-2003 data calculation program is available with this document for the automatic calculation of the energy consumption.

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

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in IEC 60350-2:2017 are prefixed "Z".

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 Regulations.

For the relationship with EU Regulations see informative Annex ZZA and Annex ZZB which are integral parts of this document.

Endorsement notice

The text of the International Standard IEC 60350-2:2017 was approved by CENELEC as a European Standard with agreed common modifications.

Common modifications

5.2 Electricity supply

Replace the last paragraph of Subclause 5.2 by:

The supply frequency shall be at a nominal 50 Hz with a relative tolerance of $\pm 1\%$.

EN 60350-2:2018**Annex ZA**
(normative)**Normative references to international publications
with their corresponding European publications**

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

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60584-2	1982	Thermocouples - Part 2: Tolerances	EN 60584-2	1993
IEC 62301	-	Electrical and electronic household and office equipment - Measurement of low power consumption	EN 50564	-
ISO 80000-1	2009	Quantities and units - Part 1: General	EN ISO 80000-1	2013
CIE 15.2		Colorimetry	-	-

Annex ZB (informative)

Uncertainty of measurements

Following IEC/TR 61923 “*Household electrical appliances – Method of measuring performance – Assessment of repeatability and reproducibility*”, the following expanded uncertainties for measurements according to this European Standard may be assumed.

In 2011, a round robin test was performed with 12 laboratories participating from all over Europe. One of the objectives was to check the robustness and precision of the measurement of energy consumption. Three technologies were tested: “solid plate”, “radiant heater”, “induction”, along with three technologies for the control system: “switch”, “energy regulator”, and “electronic control”. The size of the hobs is the most common one on the market: 60 cm with 4 cooking zones. To cover a reasonable amount of labor only one cooking zone with a diameter of 180 mm were considered. Results were analyzed by CLC/TC 59X/WG 10 together with CECED, and expanded uncertainties were calculated as shown in Table ZB.1.

**Table ZB.1 – Relative expanded uncertainty ^a of measured values of this European Standard
Measured parameter**

Relative expanded uncertainty ^a of measured values of this European Standard Measured parameter	Relative expanded uncertainty of measured value ^b ($k = 2$)
energy consumption per cooking zone calculated per kg	2,75 %
Energy consumption per cooking area calculated per kg	c
Energy consumption per hob calculated per kg	c
^a The expanded uncertainty only describes the uncertainty of the measuring method while the variance of the product is not included. ^b These values are the average of measurement figures taken from different technology, see above. ^c Not measured in this ring test.	

EN 60350-2:2018**Annex ZZA**
(informative)**Relationship between this European Standard and the ecodesign requirements of Commission Regulation (EU) No 66/2014 aimed to be covered**

This European Standard has been prepared under a Commission's standardization request M/495 Standardization mandate to CEN, CENELEC and ETSI under Directive 2009/125/EC relating to harmonized standards in the field of Ecodesign to provide one voluntary means of conforming to the ecodesign requirements of Commission Regulation (EU) No 66/2014 of 14 January 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for household **hobs** and range hoods [OJ L 29/33, 31.01.2014].

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in Table ZZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding ecodesign requirements of that Regulation and associated EFTA Regulations.

Table ZZA.1 — Correspondence between this European Standard and Commission Regulation (EU) No 66/2014 of 14 January 2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for household hobs [OJ L 29/33, 31.01.2014] and Commission's standardization request M/495 Standardization mandate to CEN, CENELEC and ETSI under Directive 2009/125/EC relating to harmonized standards in the field of Ecodesign

Ecodesign requirements of Regulation No 66/2014 [OJ L 29/33, 31.01.2014]	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
General description of the appliance model; number of cooking zones and/or areas; the heating technology.	1 Scope 2 Normative references 3 Terms and definitions	
Determining the size of cooking zones and cooking areas.	6.3 Cooking zones and cooking areas	
Measuring the energy consumption of a cooking zone or a cooking area of a domestic hob for one standardized cooking cycle.	5 General conditions for the measurement 7.1 General 7.2 Purpose 7.3 Determine a cookware set to assess a hob with cooking zones 7.4 Positioning the cookware on a cooking zone 7.5 Procedure for measuring the energy consumption of a cooking process Annex A.1 (normative) General Annex A.2 Hob with cooking area Annex A.3 Positioning on a cooking area Annex B (informative) Aids for measuring the energy consumption according to clause 7 Annex C (informative) Examples how to select and position the	Excluding 5.6.2 as this alternative cookware leads only to comparative testing results.

	cookware for 86 measurements according to clause 7 and Annex A F.3 Stainless steel for bottom material of the standardized cookware F.4 Cookware for measuring the energy consumption and heating up time	
Evaluation of the result on energy consumption and determining the normalized energy consumption in Wh / 1000 g water.	7.5.4 Evaluation and calculation	
Calculation sheet	Annex E (informative) Data and Calculation Sheet: Energy consumption of a cooking process (see clause 7 and Annex A)	

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the products falling within the scope of this standard.

EN 60350-2:2018**Annex ZZB**
(informative)**Relationship between this European Standard and the ecodesign requirements of Commission Regulation (EC) No 1275/2008 aimed to be covered**

This European Standard has been prepared under a Commission's standardization request M/439 Mandate to CEN, CENELEC and ETSI for standardization in the field of standby and off modes power consumption measurement for energy using products (EuPs) to provide one voluntary means of conforming to the ecodesign requirements of Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment [OJ L 339, 18.12.2008].

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in Table ZZC.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding ecodesign requirements of that Regulation and associated EFTA regulations.

Table ZZB.1 – Correspondence between this European Standard and Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment [OJ L 339, 18.12.2008] and Commission's standardization request M/439 Mandate to CEN, CENELEC and ETSI for standardization in the field of standby and off modes power consumption measurement for energy using products (EuPs)

Ecodesign requirements of Regulation (EC) No 1275/2008 [OJ L 339, 18.12.2008]	Clause(s) and subclause(s) of this EN	Remarks / Notes
Power consumption requirements for standby- and off-mode	12 Power measurement of low power modes	

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WARNING 2 — Other Union legislation may be applicable to the products falling within the scope of this standard.



IEC 60350-2

Edition 2.0 2017-08

INTERNATIONAL STANDARD



**Household electric cooking appliances –
Part 2: Hobs – Methods for measuring performance**





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IEC 60350-2

Edition 2.0 2017-08

INTERNATIONAL STANDARD



Household electric cooking appliances – Part 2: Hobs – Methods for measuring performance

INTERNATIONAL
ELECTROTECHNICAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD ELECTRIC COOKING APPLIANCES –

Part 2: Hobs – Methods for measuring performance

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60350-2 has been prepared by subcommittee 59K: Performance of household and similar electrical cooking appliances, of IEC technical committee TC 59: Performance of household and similar electrical appliances.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) terms and definitions revised and new definitions added (see 3);
- b) following the new market trend, requirements related to so-called flexible and free induction zones – in this document named as **cooking areas** – are added;
- c) specification for standardized and alternative cookware is introduced (see 5.6);
- d) measurement procedure reflecting a household-like cooking process for measuring the energy consumption is introduced (see Clause 7 and Annex A);

- e) revision of measurement procedure for determining the accuracy of control (see Clause 8);
- f) new reproducible measurement procedure for assessing the heat distribution (see Clause 9);
- g) additional requirements (according to IEC 62301:2011) on how to measure low-power modes.

In this document, terms in bold characters are defined in Clause 3.

This standard contains attached files in the form of a spreadsheet. These files are intended to be used as a complement and do not form an integral part of the standard.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
59K/293/FDIS	59K/294/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60350 series, published under the general title *Household electric cooking appliances*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

HOUSEHOLD ELECTRIC COOKING APPLIANCES –

Part 2: Hobs – Methods for measuring performance

1 Scope

This part of IEC 60350 defines methods for measuring the performance of electric **hobs** for household use.

Appliances covered by this document can be built-in or designed to be placed on a work surface. The **hob** can also be a part of a cooking range.

This document does not apply to portable appliances for cooking, grilling and similar functions (see IEC 61817).

This document defines the main performance characteristics of **hobs** which are of interest to the user and specifies methods for measuring these characteristics.

This document does not specify a classification or ranking for performance.

NOTE 1 Some of the tests which are specified in this document are not considered to be reproducible since the results can vary between laboratories. They are therefore intended for comparative testing purposes only.

NOTE 2 This document does not deal with safety requirements (IEC 60335-2-6 and IEC 60335-2-9).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 62301:2011, *Household electrical appliances – Measurement of standby power*

IEC 60364-5-54, *Low-voltage electrical installations – Part 5-54: Selection and erection of electrical equipment – Earthing arrangements and protective conductors*

ISO 80000-1:2009, *Quantities and units – Part 1: General*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN