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# Household range hoods and other cooking fume extractors — Methods for measuring performance

ICS 97.040.20

## National foreword

This British Standard is the UK implementation of EN 61591:1997+A12:2015. It is derived from IEC 61591:1997, incorporating amendments 1:2005 and 2:2010. It supersedes BS EN 61591:1997+A11:2014, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **A1** **A1**.

Where a common modification has been introduced by CENELEC amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by **C11** **C11**.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 November 1997

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### Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
16493	31 July 2006	See national foreword
	31 July 2011	Implementation of IEC amendment 2:2010 and its CENELEC endorsement A2:2011
	31 July 2014	Implementation of CENELEC amendment A11:2014. Identifier on front cover updated
	31 July 2015	Implementation of CENELEC amendment A12:2015

## EUROPÄISCHE NORM

April 2015

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English version

# Household range hoods and other cooking fume extractors — Methods for measuring performance

(IEC 61591:1997)

Hottes de cuisine à usage domestique  
Méthodes de mesure de l'aptitude à la  
fonction  
(CEI 61591:1997)

Haushalt-Dunstabzugshauben  
Verfahren zur Messung der  
Gebrauchseigenschaft  
(IEC 61591:1997)

This European Standard was approved by CENELEC on 1997-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## CENELEC

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

**Central Secretariat: rue de Stassart 35, B-1050 Brussels**

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## Foreword

The text of document 59/171/FDIS, future edition 1 of IEC 61591, prepared by IEC TC 59, Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61591 on 1997-07-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-04-01

## Foreword to amendment A1

The text of amendment 1:2005 to the International Standard IEC 61591:1997, prepared by SC 59K, Ovens and microwave ovens, cooking ranges and similar appliances, of IEC TC 59, Performance of household electrical appliances, was submitted to the formal vote and was approved by CENELEC as amendment A1 to EN 61591:1997 on 2006-05-01 without any modification.

The following dates were 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) 2007-05-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2009-05-01

## Endorsement notice

The text of the International Standard IEC 61591:1997, including amendment 1:2005, was approved by CENELEC as a European Standard without any modification.

## Foreword to amendment A2

The text of document 59K/202/FDIS, future amendment 2 to IEC61591:1997, prepared by SC59K, Ovens and microwave ovens, cooking ranges and similar appliances, of IECTC59, Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 61591:1997 on 2011-01-01.

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

The following dates were 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) 2011-10-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2014-01-01

## Endorsement notice

The text of amendment 2:2010 to the International Standard IEC 61591:1997 was approved by CENELEC as an amendment to the European Standard without any modification.

## Foreword to amendment A11

This document (EN 61591:1997/A11:2014) has been prepared by CLC/TC 59, "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-11-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-11-11

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.

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### **Foreword to amendment A12**

This document (EN 61591:1997/A12:2015) has been prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-01-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-01-12

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 Annexes ZZA and ZZB, which is an integral part of this document.

**Annex ZZA**  
(informative)

**Relationship between this European Standard and the requirements of Commission Delegated Regulation (EU) No 65/2014**

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association to provide a means of conforming to requirements of Commission Delegated Regulation (EU) No 65/2014 of 1 October 2014 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling for household **range hoods**.

Once this standard is cited in the Official Journal of the European Union under that Commission Regulation, compliance with the 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 requirements of that and associated EFTA regulations.

**Table ZZA.1 — Correspondence between this European Standard and Commission Delegated Regulation (EU) No 65/2014**

Requirements of Commission Delegated Regulation (EU) No 65/2014	Clauses and subclauses of this EN
Scope; general description of the appliance model; defining general test conditions	1 Scope 2 Normative references 3 Terms and definitions 4 Classification 6 General conditions for measurements 7 Overall dimensions 8 Maximum effective capture area
Determining the Best Efficiency Point (BEP)	11 Volumetric air flow 16.Z1 Measurement of the Fluid Dynamic Efficiency (FDE)
Determining the grease filtering efficiency	12 Grease absorption
Determining the lighting efficiency	14 Effectiveness of the hob light
Determining the fluid dynamic efficiency and measuring the energy consumption	16.Z1 Measurement of the Fluid Dynamic Efficiency (FDE)
Measuring the noise value	16.Z2 Noise

**WARNING — Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.** 

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(informative)

## Relationship between this European Standard and the requirements of Commission Regulation (EU) No 66/2014

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association to provide a means of conforming to requirements of 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 **range hoods**.

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

**Table ZZB.1 — Correspondence between this European Standard and Commission Regulation (EU) No 66/2014**

Requirements of Commission Regulation (EU) No 66/2014	Clauses and subclauses of this EN
Scope; general description of the appliance model; defining general test conditions	1 Scope 2 Normative references 3 Terms and definitions 4 Classification 6 General conditions for measurements 7 Overall dimensions 8 Maximum effective capture area
Determining the Best Efficiency Point (BEP)	11 Volumetric air flow 16.Z1 Measurement of the Fluid Dynamic Efficiency (FDE)
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