

ILNAS

Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 61591:1997

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

Hottes de cuisine et autres extracteurs de
fumées de cuisson à usage domestique -
Méthodes de mesure de l'aptitude à la
fonction

Haushalt-Dunstabzugshauben und
andere Absauger für Kochdünste -
Verfahren zur Messung der
Gebrauchseigenschaft

09/1997

A decorative graphic in the bottom right corner featuring several interlocking gears in shades of blue and yellow. Overlaid on the gears is a vertical column of binary code (0s and 1s) and various mathematical symbols like plus, minus, and multiplication signs.

National Foreword

This European Standard EN 61591:1997 was adopted as Luxembourgish Standard ILNAS-EN 61591:1997.

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English version

**Household range hoods - 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.

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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

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with the EN have to be withdrawn (dow) 1998-04-01

Endorsement notice

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

ILNAS-EN 61591:1997

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61591

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**Hottes de cuisine à usage domestique –
Méthodes de mesure de l'aptitude
à la fonction**

**Household range hoods –
Methods for measuring performance**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD RANGE HOODS – METHODS FOR MEASURING PERFORMANCE

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 61591 has been prepared by IEC technical committee 59: Performance of household electrical appliances.

The text of this standard is based on the following documents:

FDIS	Report on voting
59/171/FDIS	59/181/RVD

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

HOUSEHOLD RANGE HOODS – METHODS FOR MEASURING PERFORMANCE

1 Scope

This International Standard applies to range hoods incorporating a fan for the recirculation or forced removal of air from above a hob situated in a household kitchen.

This standard defines the main performance characteristics of range hoods and specifies methods for measuring these characteristics, for the information of users.

This standard does not specify required values for performance characteristics.

NOTE – This standard does not deal with:

- safety requirements (IEC 60335-2-31)¹⁾;
- acoustical noise.

2 Normative reference

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5167-1: 1991, *Measurement of fluid flow by means of pressure differential devices – Part 1: Orifice plates, nozzles and Venturi tubes inserted in circular cross-section conduits running full*

3 Definitions

For the purpose of this International Standard, the following definitions apply.

3.1 **range hood:** Appliance installed over a hob and through which air is passed to remove contaminants from the room.

3.2 **recirculating-air range hood:** Range hood containing filters to remove contaminants after which the cleaned air is discharged back into the room.

3.3 **air-extraction range hood:** Range hood which discharges the collected air to the outside of the building by means of ducting.

3.4 **rated voltage:** Voltage assigned to the range hood by the manufacturer.

3.5 **grease absorption factor:** The percentage of grease retained within a filter.

3.6 **odour reduction factor:** The capability of the range hood to reduce odours.

3.7 **odour dispersion time:** Time taken to reduce odours to a defined level after the odour generating source has been switched off.

¹⁾ IEC 60335-2-31:1995, *Safety of household and similar electrical appliances – Part 2: Particular requirements for range hoods*