



**NSAI**  
Standards

Irish Standard

I.S. EN 60335-2-99:2003&A1:2019

# Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods

**I.S. EN 60335-2-99:2003&A1:2019**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 60335-2-99:2003/A1:2019

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):*

*NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.*

*This document is based on:*

EN 60335-2-99:2003

*Published:*

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*This document was published under the authority of the NSAI and comes into effect on:*

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NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 60335-2-99:2003&A1:2019 is the adopted Irish version of the European Document EN 60335-2-99:2003, Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods

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

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**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60335-2-99:2003/A1**

June 2019

ICS 97.040.20

English Version

**Household and similar electrical appliances - Safety - Part 2-99:  
Particular requirements for commercial electric hoods  
(IEC 60335-2-99:2003/A1:2017)**

Appareils électrodomestiques et analogues - Sécurité -  
Partie 2-99: Règles particulières pour les hottes de cuisine  
électriques à usage commercial  
(IEC 60335-2-99:2003/A1:2017)

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 2-99: Besondere Anforderungen für  
elektrische Dunstabzugshauben für den gewerblichen  
Gebrauch  
(IEC 60335-2-99:2003/A1:2017)

This amendment A1 modifies the European Standard EN 60335-2-99:2003; it was approved by CENELEC on 2017-04-24. 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.

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



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 60335-2-99:2003/A1:2019 (E)**

**European foreword**

The text of document 61/5366/FDIS, future IEC 60335-2-99/A1, prepared by IEC/TC 61 "Safety of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60335-2-99:2003/A1:2019.

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) 2019-12-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-06-14

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.

**Endorsement notice**

The text of the International Standard IEC 60335-2-99:2003/A1:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60335-2-65                      NOTE              Harmonized as EN 60335-2-65

## Annex ZA

(normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where 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](http://www.cenelec.eu).

The Annex ZA of EN 60335-2-99:2003 is replaced by the following:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 898-1	-	Mechanical properties of fasteners made of carbon steel and alloy steel – Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread		-
ISO 3506-1	-	Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs	EN ISO 3506-1	-
ISO 3506-2	-	Mechanical properties of corrosion-resistant stainless steel fasteners – Part 2: Nuts	EN ISO 3506-2	-
ISO 3506-3	-	Mechanical properties of corrosion-resistant stainless steel fasteners – Part 3: Set screws and similar fasteners not under tensile stress	EN ISO 3506-3	-
ISO 3506-4	-	Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws	EN ISO 3506-4	-

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**IEC 60335-2-99**

Edition 1.0 2017-06

# **INTERNATIONAL STANDARD**

## **NORME INTERNATIONALE**

### **AMENDMENT 1 AMENDEMENT 1**

**Household and similar electrical appliances – Safety –  
Part 2-99: Particular requirements for commercial electric hoods**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-99: Règles particulières pour les hottes de cuisine électriques à usage  
commercial**



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The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

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#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

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#### IEC Glossary - [std.iec.ch/glossary](http://std.iec.ch/glossary)

65 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

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### A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

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**IEC 60335-2-99**

Edition 1.0 2017-06

# **INTERNATIONAL STANDARD**

## **NORME INTERNATIONALE**

**AMENDMENT 1**  
**AMENDEMENT 1**

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**Household and similar electrical appliances – Safety –  
Part 2-99: Particular requirements for commercial electric hoods**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-99: Règles particulières pour les hottes de cuisine électriques à usage  
commercial**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ELECTROTECHNIQUE  
INTERNATIONALE

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ICS 97.040.20

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## FOREWORD

This amendment has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

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

FDIS	Report on voting
61/5366/FDIS	61/5394/RVD

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

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

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

NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

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## 1 Scope

*Add the following at the end of the first paragraph:*

The following extraction systems are covered as well:

- back draft ventilation systems;
- downdraft ventilation systems;
- fume extraction modules.

*Add, in the second paragraph, the words, "and similar", after the words, ".....not intended for household", to read:*

*"...not intended for household and similar use,...".*

*Replace Note101 by the following:*

EUROPEAN STANDARD

**EN 60335-2-99**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2003

ICS 97.040.20

English version

**Household and similar electrical appliances –  
Safety  
Part 2-99: Particular requirements for commercial electric hoods  
(IEC 60335-2-99:2003)**

Appareils électrodomestiques et  
analogues –  
Sécurité  
Partie 2-99: Règles particulières  
pour les hottes de cuisine électriques  
à usage commercial  
(CEI 60335-2-99:2003)

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke  
Teil 2-99: Besondere Anforderungen  
für elektrische Dunstabzugshauben  
für den gewerblichen Gebrauch  
(IEC 60335-2-99:2003)

This European Standard was approved by CENELEC on 2003-07-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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**

## Foreword

The text of document 61E/422/FDIS, future first edition of IEC 60335-2-99, prepared by SC 61E of the IEC Technical Committee 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-99 on 2003-07-01.

The following dates are applicable:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2004-04-01
- date on which national standards  
conflicting with the EN have to be withdrawn (dow) 2006-07-01

This part 2 has to be used in conjunction with EN 60335-1, Household and similar electrical appliances – Safety – Part 1: General requirements. It was established on the basis of the 2002 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 1.

This part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Safety requirements for commercial electric hoods.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 1 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letter Z.

NOTE 2 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

There are no special national conditions causing a deviation from this European Standard, other than those listed in Annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in Annex ZB to EN 60335-1.

p NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

---

## **Introduction**

p Add:

An investigation by CENELEC TC 61 has shown that all risks from products within the scope of this standard are fully covered by the Low Voltage Directive, 73/23/EEC. For products having mechanical moving parts, a risk assessment in accordance with the Machinery Directive, 98/37/EC, has shown that the risks are mainly of electrical origin and consequently this directive is not applicable. However, the relevant essential safety requirements of the Machinery Directive are covered by this standard together with the principal objectives of the Low Voltage Directive.

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## **Endorsement notice**

The text of the International Standard IEC 60335-2-99:2003 was approved by CENELEC as a European Standard without any modification.

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# INTERNATIONAL STANDARD

**IEC**  
**60335-2-99**

First edition  
2003-02

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## **Household and similar electrical appliances – Safety –**

### **Part 2-99: Particular requirements for commercial electric hoods**

*Appareils électrodomestiques et analogues –  
Sécurité –*

*Partie 2-99:  
Règles particulières pour les hottes de cuisine électriques  
à usage commercial*



Reference number  
IEC 60335-2-99:2003(E)

## Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

## Consolidated editions

The IEC is now publishing consolidated versions of its publications. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

## Further information on IEC publications

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology. Information relating to this publication, including its validity, is available in the IEC Catalogue of publications (see below) in addition to new editions, amendments and corrigenda. Information on the subjects under consideration and work in progress undertaken by the technical committee which has prepared this publication, as well as the list of publications issued, is also available from the following:

- **IEC Web Site** ([www.iec.ch](http://www.iec.ch))

- **Catalogue of IEC publications**

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- **IEC Just Published**

This summary of recently issued publications ([http://www.iec.ch/online\\_news/justpub/jp\\_entry.htm](http://www.iec.ch/online_news/justpub/jp_entry.htm)) is also available by email. Please contact the Customer Service Centre (see below) for further information.

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# INTERNATIONAL STANDARD

**IEC**  
**60335-2-99**

First edition  
2003-02

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## **Household and similar electrical appliances – Safety –**

### **Part 2-99: Particular requirements for commercial electric hoods**

*Appareils électrodomestiques et analogues –  
Sécurité –*

*Partie 2-99:  
Règles particulières pour les hottes de cuisine électriques  
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PRICE CODE

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## CONTENTS

FOREWORD .....	3
INTRODUCTION .....	5
1 Scope .....	6
2 Normative references.....	6
3 Definitions .....	6
4 General requirement .....	7
5 General conditions for the tests .....	7
6 Classification .....	7
7 Marking and instructions .....	7
8 Protection against access to live parts .....	8
9 Starting of motor-operated appliances .....	8
10 Power input and current.....	9
11 Heating.....	9
12 Void .....	10
13 Leakage current and electric strength at operating temperature .....	10
14 Transient overvoltages.....	10
15 Moisture resistance.....	10
16 Leakage current and electric strength .....	10
17 Overload protection of transformers and associated circuits.....	10
18 Endurance .....	10
19 Abnormal operation.....	11
20 Stability and mechanical hazards .....	11
21 Mechanical strength.....	11
22 Construction .....	11
23 Internal wiring .....	12
24 Components .....	12
25 Supply connection and external flexible cords.....	12
26 Terminals for external conductors .....	13
27 Provision for earthing.....	13
28 Screws and connections .....	13
29 Clearances, creeping distances and solid insulation .....	14
30 Resistance to heat and fire .....	14
31 Resistance to rusting .....	14
32 Radiation, toxicity and similar hazards .....	14
Annexes.....	15
Annex N (normative) Proof tracking test.....	15
Bibliography.....	15

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

#### Part 2-99: Particular requirements for commercial electric hoods

#### 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.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

This part of International Standard IEC 60335 has been prepared by subcommittee 61E: Safety of electrical commercial catering equipment, of IEC technical committee 61: Safety of household and similar electrical appliances.

It forms the first edition of IEC 60335-2-99.

The text of this part of IEC 60335 is based on the following documents:

FDIS	Report on voting
61E/422/FDIS	61E/425/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.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fourth edition (2001) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert it into the IEC standard: Safety requirements for commercial electric hoods.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

The following differences exist in the countries indicated below:

- 6.1: Class 01 **hoods** are allowed (Japan).
- 6.2: For **hoods** intended to be installed in a kitchen, an appropriate degree of protection against harmful ingress of water is required according to their height of installation (France).
- 13.2: Leakage current limits are different (Japan).
- 16.2: Leakage current limits are different (Japan).
- Clause 21: For **hoods** intended to be installed in a kitchen, different values of impact energy are applicable according to the height of the impact point (France).

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

## INTRODUCTION

It has been assumed in the drafting of this international standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-99: Particular requirements for commercial electric hoods

#### 1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of electrically operated commercial **hoods** intended for installation above commercial cooking appliances such as ranges, griddles, griddle grills and deep fat fryers, and not intended for household use, their **rated voltage** being not more than 250 V for single phase **hoods** connected between one phase and neutral, and 480 V for other **hoods**. Only single complete units and **hoods** supplied as separate parts which when assembled form a complete working **hood**, incorporating a fan, are within the scope of the standard.

NOTE 101 **Hoods** are used, for example in restaurants, canteens, hospitals and commercial enterprises such as bakeries, butcheries, etc.

The **hood** may be used above one or more appliance of the same or different types.

So far as is practicable, this standard deals with the common hazards presented by these types of appliances.

NOTE 102 Attention is drawn to the fact that:

- for **hoods** intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements including ventilation requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities;

NOTE 103 This standard does not apply to:

- domestic range **hoods** (IEC 60335-2-31);
- purpose-built **hoods**, although this standard can be used as a guide (a purpose-built **hood** is either constructed on-site or specially constructed in the factory and is not mass produced);
- **hoods** not incorporating a fan;
- **hoods** designed exclusively for industrial purposes;
- **hoods** intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

NOTE 104 Requirements for **hoods** with externally mounted fans are under consideration.

#### 2 Normative references

This clause of Part 1 is applicable.

#### 3 Definitions

This clause of Part 1 is applicable except as follows.

##### 3.1.4 Addition:

NOTE 101 The **rated power input** is the sum of the power inputs of all the individual elements in the **hood** which can be on at one time; where several such combinations are possible, that giving the highest power input is used in determining the **rated power input**.



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