

**SLOVENSKI STANDARD  
SIST EN 60335-2-49:1998**

**01-junij-1998**

**BUXca Yý U  
SIST EN 60335-2-49:1995**

**Safety of household and similar electrical appliances - Part 2: Particular requirements for commercial electric hot cupboards (IEC 60335-2-49:1995)**

Safety of household and similar electrical appliances -- Part 2-49: Particular requirements for commercial electric hot cupboards

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-49: Besondere Anforderungen für elektrische Wärmeschränke für den gewerblichen Gebrauch  
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[SIST EN 60335-2-49:1998](#)

Sécurité des appareils électrodomestiques et analogues -- Partie 2-49: Règles particulières pour les armoires chauffantes électriques à usage collectif  
(14971746/sist-en-60335-2-49-1998)

**Ta slovenski standard je istoveten z: EN 60335-2-49:1997**

**ICS:**

97.040.50 Majhni gospodinjski aparati Small kitchen appliances

**SIST EN 60335-2-49:1998 en**

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EUROPEAN STANDARD

EN 60335-2-49

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 1997

ICS 97.040.20

Supersedes EN 60335-2-49:1990 and its amendment

Descriptors: Household electrical appliances, cupboards, appliance for commercial use, safety requirements, protection against electric shock, fire protection, protection against mechanical hazard

English version

**Safety of household and similar electrical appliances**  
**Part 2: Particular requirements for commercial electric hot cupboards**  
 (IEC 335-2-49:1995)

Sécurité des appareils  
 électrodomestiques et analogues  
 Partie 2: Règles particulières pour les  
 armoires chauffantes électriques à  
 usage collectif  
 (CEI 335-2-49:1995)

Sicherheit elektrischer Geräte für den  
 Hausgebrauch und ähnliche Zwecke  
 Teil 2: Besondere Anforderungen für  
 elektrische Wärmeschränke für den  
 gewerblichen Gebrauch  
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This European Standard was approved by CENELEC on 1997-03-11. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



REPUBLIKA SLOVENIJA  
 MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO  
 Urad RS za standardizacijo in meroslovje  
 LJUBLJANA

**CENELEC**

SIST. EN 60335-2-49  
 PREVZET PO METODI RAZGLASITVE

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

-06- 1998

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

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Ref. No. EN 60335-2-49:1997 E

## Foreword

The proposal to endorse IEC 335-2-49:1995, document CLC/TC 61 (SEC) 1017, was circulated under the enquiry procedure in June 1995. This proposal was discussed during the Copenhagen meeting in May 1996, when it was decided to submit a draft for EN 60335-2-49 to the formal vote.

This draft was circulated in September 1996 and was ratified by CENELEC as EN 60335-2-49 on 1997-03-11.

This European standard has been prepared by the secretariat of CENELEC Technical Committee TC 61.

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) 1997-12-01
- date on which national standards conflicting with the EN have to be withdrawn (dow) 1999-12-01

For products which have complied with EN 60335-2-49:1990 including its amendment A1:1992 before 1999-12-01, as shown by the manufacturer or by a certification body, these previous standards may continue to apply for production until 2004-12-01.

This standard has to be used in conjunction with EN 60335-1, Safety of household and similar electrical appliances, Part 1: General requirements. It was established on the basis of the 1994 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 hot cupboards.

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

Subclauses and figures which are additional to those in part 1 are numbered starting with 101.

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.

NOTE - 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 2. When a definition of part 1 concerns an adjective, the adjective and the associated noun are also bold.

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



**Endorsement notice**

The text of the International Standard IEC 335-2-49:1995 was approved by CENELEC as a European Standard without any modification.

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**Annexes****Annex A - Normative references**

p Replace by:

**Annex A**  
(normative)**Normative references****International publications with their relevant European publication***Addition:*

<u>IEC standard</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
436	1981	Methods for measuring the performance of electric dishwashers	-	-

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
335-2-49

Deuxième édition  
Second edition  
1995-04

**Sécurité des appareils électrodomestiques  
et analogues**

**Partie 2:**

Règles particulières pour les armoires chauffantes  
électriques à usage collectif

(standards.iteh.ai)

**Safety of household and similar electrical  
appliances**

**Part 2:**

Particular requirements for commercial electric  
hot cupboards

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

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For price, see current catalogue

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

## Part 2: Particular requirements for commercial electric hot cupboards

## 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 cooperation 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, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

This part of International Standard IEC 335 has been prepared by sub-committee 61E: Safety of electrical commercial catering equipment, of IEC technical committee 61: Safety of household and similar electrical appliances.

It forms the second edition of IEC 335-2-49 and replaces the first edition, published in 1988, and its amendment 1 (1990).

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

DIS	Report on voting
61E(CO)132	61E/141/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 335-1 and its amendments. It was established on the basis of the third edition (1991) of that standard.

This part 2 supplements or modifies the corresponding clauses in IEC 335-1, so as to convert it into the IEC standard: Safety requirements for commercial electric hot cupboards.

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

#### NOTES

- 1 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 2.

- 2 Subclauses, notes and figures which are additional to those in part 1 are numbered starting from 101.

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## SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

### Part 2: Particular requirements for commercial electric hot cupboards

#### 1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of electrically operated **hot cupboards** not intended for household use, their **rated voltage** being not more than 250 V for single-phase appliances connected between one phase and neutral, and 480 V for other appliances.

**Hot cupboards with heated tops, heated display cases, heated crockery dispensers, and heated shelves and tables** are also within the scope of this standard.

NOTE 1 – These appliances are used, for example, in restaurants, canteens, hospitals and similar commercial enterprises.

The electrical part of appliances making use of other forms of energy is also within the scope of this standard.

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

NOTE 2 - Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- for appliances intended to be used in tropical countries, special requirements may be necessary;
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities;
- for appliances intended to be used outdoors, additional requirements may be necessary.

This standard does not apply to:

- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- continuous process appliances for the mass production of food;
- bains-marie (IEC 335-2-50).

#### 2 Definitions

This clause of part 1 is applicable except as follows:

##### 2.2.4 Addition:

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