

# SLOVENSKI STANDARD

## SIST EN 60335-2-2:1997

01-junij-1997

Nadomešča:  
SIST EN 60335-2-2:1995

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**Varnost gospodinjskih in podobnih električnih aparatov - 2-2. del: Posebne zahteve za sesalnike prahu in sesalnike z vodo (IEC 60335-2-2:1993; spremenjen)**

Safety of household and similar electrical appliances -- Part 2-2: Particular requirements for vacuum cleaners and water suction cleaning appliances

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-2: Besondere Anforderungen für Staubsauger und Wassersauger

Sécurité des appareils électrodomestiques et analogues -- Partie 2-2: Règles particulières pour les aspirateurs et les appareils de nettoyage à aspiration d'eau

**Ta slovenski standard je istoveten z: EN 60335-2-2:1995**

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**ICS:**

13.120	Varnost na domu	Domestic safety
97.080	Aparati za nego tal	Floor treatment appliances

**SIST EN 60335-2-2:1997** en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60335-2-2**

August 1995

ICS 97.080

Supersedes EN 60335-2-2:1988 and its amendments

Descriptors: Household electrical appliances, vacuum cleaners, cleaning appliances, 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 vacuum cleaners  
and water suction cleaning appliances  
(IEC 335-2-2:1993, modified)**

Sécurité des appareils  
électrodomestiques et analogues  
Partie 2: Règles particulières pour les  
aspirateurs et les appareils de nettoyage  
à aspiration d'eau  
(CEI 335-2-2:1993, modifiée)

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke  
Teil 2: Besondere Anforderungen für  
Staubsauger und Wassersauger  
(IEC 335-2-2:1993, modifiziert)

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This European Standard was approved by CENELEC on 1995-07-04. 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.

**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 proposal to endorse IEC 335-2-2:1993, document CLC/TC 61 (SEC) 904, was circulated under the enquiry procedure in July 1993. This proposal was discussed during the Oslo meeting in April 1994, when it was decided to submit a draft for EN 60335-2-2 to the formal vote.

This draft was circulated in November 1994 and was ratified by CENELEC as EN 60335-2-2 on 1995-07-04.

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) 1996-01-01
- latest date by which national standards conflicting with the EN have to be withdrawn (dow) 1998-01-01

For products which have complied with EN 60335-2-2:1988 including its amendments A2:1990, A52:1991 and A53:1994 before 1998-01-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2003-01-01.

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 of electric vacuum cleaners and water suction cleaning appliances.

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 from 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 in bold.

p NOTE - 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 335-2-2:1993 was approved by CENELEC as a European Standard with agreed common modifications as given below.

**COMMON MODIFICATIONS**

- 6 Classification**
- p 6.1 Replace the requirement by:
- Vacuum cleaners intended for household use only and vacuum cleaners for animal grooming shall be **class II** or **class III**.
- Other vacuum cleaners and water suction cleaning appliances shall be **class I, class II** or **class III**.
- 19 Abnormal operation**
- p 19.101 Replace the text by:
- Water suction cleaning appliances having a liquid container incorporating a valve or other protective device, are supplied at rated voltage with the valve or protective device held open or otherwise rendered inoperative. The appliance is operated with the nozzle placed in a trough containing water until water starts to overflow and for a further period of 30 s.*
- <https://standards.iteh.ai/catalog/standards/sist/940991e8-51c2-408d-9598-f4269ab892b9/sist-en-60335-2-2-1997>
- NOTE - If the appliance incorporates more than one protective device they are rendered inoperative in turn.**
- 22 Construction**
- p 22.40 Delete.
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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC  
335-2-2**

Quatrième édition  
Fourth edition  
1993-04

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**Sécurité des appareils électrodomestiques  
et analogues**

**Partie 2:**

**Règles particulières pour les aspirateurs  
et les appareils de nettoyage à aspiration d'eau**

**Safety of household and similar  
electrical appliance**

**Part 2:**

**Particular requirements for vacuum cleaners  
and water suction cleaning appliances**

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

Part 2: Particular requirements for vacuum cleaners and  
water suction cleaning appliances

## 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 IEC Technical Committee No. 61: Safety of household and similar electrical appliances.

It forms the fourth edition of IEC 335-2-2 and replaces the third edition and its amendments Nos. 1 and 2.

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

DIS	Report on voting
61(CO)749 and 749A	61(CO)773

Full information on the voting for the approval of this part can be found in the Voting Report 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 electric vacuum cleaners and water suction cleaning appliances.

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

The following additional differences exist in some countries:

- 2.2.9: The **normal operation** is conducted differently and involves contact between the nozzle and the carpet (USA).
- Clause 3: The d.c. component in the appliance neutral is limited (Australia).
- 6.1: **Class 0 appliances** are allowed (Canada, Japan, USA).  
Household vacuum cleaners are required to be **Class II** or **Class III** (Denmark, France, Italy, Netherlands, Norway and Turkey).
- 6.2: IPX4 is not required (USA).
- 7.1: The additional marking for appliance outlets for accessories is not required (USA).
- 10.1: The power input of booster settings is taken into account (USA).
- 11.5: Booster settings are activated 2 min of every 8 min during the test (USA).
- 11.7: The test is conducted with one-third of the cord unreeled until steady conditions are established (USA).
- 15.2: The test is conducted differently (USA).
- 16.3: The test is conducted differently (USA).
- 21.101: The tests are made differently (Canada and USA).
- 21.102: The tests are made differently (Canada and USA).
- 21.103: The tests are made differently (Canada and USA).
- 21.104: This test is not conducted (USA).
- 25.1: The **supply cord** is not necessary if the inlet and outlet are of the locking type (USA).
- 25.7: Ordinary polyvinyl chloride sheathed cords are allowed for animal grooming appliances (Australia).  
Lighter cords are permitted for vacuum cleaners for household purposes (USA).

## SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

### Part 2: Particular requirements for vacuum cleaners and water suction cleaning appliances

#### 1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of electric vacuum cleaners and **water suction cleaning appliances** for household and similar purposes, including vacuum cleaners for animal grooming, their **rated voltage** being not more than 250 V.

This standard also applies to motorized cleaning heads and current-carrying hoses associated with a particular vacuum cleaner.

Appliances not intended for normal household use, but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops and other premises for normal housekeeping purposes, are within the scope of this standard.

NOTE 1 - Examples are appliances intended to be used for normal housekeeping purposes in hotels, offices, schools, hospitals and similar premises.

So far as is practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home.

This standard does not in general take into account

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliance by young children.

#### NOTES

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.

3 This standard does not apply to :

- appliances incorporating heating elements;
- centrally-sited vacuum cleaners;
- 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).