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Elektriska hushållsapparater och liknande bruksföremål – Säkerhet –

Del 2-2: Särskilda fordringar på dammsugare och vattensugare

Household and similar electrical appliances –

Safety –

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

Som svensk standard gäller europastandarden EN IEC 60335-2-2:2023. Den svenska standarden innehåller de officiella engelska språkversionerna av EN IEC 60335-2-2:2023 och EN IEC 60335-2-2:2023/A11:2023.

Nationellt förord

Europastandarden EN IEC 60335-2-2:2023

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 60335-2-2, Seventh edition, 2019 - Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med den senaste utgåvan av SS-EN 60335-1, vilket vid denna standards utgivning är SS-EN 60335-1, utg 5:2012.

Tidigare fastställd svensk standard SS-EN 60335-2-2, utg 6:2010 med eventuella tillägg, ändringar och rättelser gäller ej fr o m 2026-11-10.

ICS 13.120.00; 97.080.00

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English Version

**Household and similar electrical appliances - Safety - Part 2-2:
Particular requirements for vacuum cleaners and water-suction
cleaning appliances
(IEC 60335-2-2:2019)**

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-2: Règles particulières pour les aspirateurs et les
appareils de nettoyage à aspiration d'eau
(IEC 60335-2-2:2019)

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-2: Besondere Anforderungen für
Staubsauger und Wassersauger
(IEC 60335-2-2:2019)

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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

European foreword

This document (EN IEC 60335-2-2:2023) consists of the text of document IEC 60335-2-2:2019, prepared by IEC/TC 61 “Safety of household and similar electrical appliances”.

The following dates are fixed:

- latest date by which this document has to be (dop) 2024–05–10
implemented at national level by publication of an
identical national standard or by endorsement
- latest date by which the national standards (dow) 2026–11–10
conflicting with this document have to be withdrawn

This document supersedes EN 60335-2-2:2010 and all of its amendments and corrigenda (if any).

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This document is read in conjunction with EN IEC 60335-2-2:2023/A11:2023.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60335-2-2:2019 was approved by CENELEC as a European Standard without any modification.

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Household and similar electrical appliances – Safety –
Part 2-2: Particular requirements for vacuum cleaners and water-suction
cleaning appliances**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-2: Exigences particulières pour les aspirateurs et les appareils
de nettoyage à aspiration d'eau**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 13.120; 97.080

ISBN 978-2-8322-6864-3

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CONTENTS

FOREWORD	4
INTRODUCTION	7
1 Scope	8
2 Normative references	9
3 Terms and definitions	9
4 General requirement	11
5 General conditions for the tests	11
6 Classification	11
7 Marking and instructions	11
8 Protection against access to live parts	13
9 Starting of motor-operated appliances	13
10 Power input and current	13
11 Heating	14
12 Void	15
13 Leakage current and electric strength at operating temperature	15
14 Transient overvoltages	15
15 Moisture resistance	15
16 Leakage current and electric strength	17
17 Overload protection of transformers and associated circuits	17
18 Endurance	17
19 Abnormal operation	17
20 Stability and mechanical hazards	19
21 Mechanical strength	19
22 Construction	21
23 Internal wiring	22
24 Components	22
25 Supply connection and external flexible cords	22
26 Terminals for external conductors	23
27 Provision for earthing	23
28 Screws and connections	23
29 Clearances, creepage distances and solid insulation	23
30 Resistance to heat and fire	23
31 Resistance to rusting	24
32 Radiation, toxicity and similar hazards	24
Annexes	27
Annex B (normative) Appliances powered by rechargeable batteries that are recharged in the appliance	28
Annex C (normative) Ageing test on motors	31
Annex R (normative) Software evaluation	32
Annex S (normative) Battery-operated appliances powered by batteries that are non-rechargeable or not recharged in the appliance	33
Bibliography	36

Figure 101 – Apparatus for testing the abrasion resistance of current-carrying hoses	24
Figure 102 – Apparatus for testing the resistance to flexing of current-carrying hoses	25
Figure 103 – Configuration of the hose for the freezing treatment	25
Figure 104 – Flexing positions for the hose after removal from the freezing cabinet	26
Figure 105 – Probe for measuring surface temperatures	26
Table 101 – Maximum temperature rises for specified accessible external surfaces under normal operating conditions	15

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

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

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. 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 60335-2-2 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This seventh edition cancels and replaces the sixth edition published in 2009, Amendment 1:2012 and Amendment 2:2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- some requirements for appliances for animal grooming have been modified (6.1, 25.7)
- the note in 7.101 has been deleted;
- converted some notes to normative text (7.102, 10.1, 11.3, 13.1, 15.2, 15.101, 19.101, 20.1, 20.2, 21.103, 21.105, 22.32, 25.23);

- clarification that the test of 19.7 is applicable to vacuum cleaners with a motorized brush or similar device;
- modified Annex R for alignment with 22.201 of Annex B;
- modified Annex S in accordance with IEC 60335-2-2:2009/ISH1:2016;
- requirements for mechanical strength of handles have been added (21.106).

The text of this International Standard is based on the following documents:

FDIS	Report on voting
61/5790/FDIS	61/5807/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

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 fifth edition (2010) 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 that publication into the IEC standard: Safety requirements for vacuum cleaners and water-suction cleaning appliances.

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 document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

NOTE 4 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.

The following differences exist in the countries indicated below.

- 3.1.9: Normal operation is defined differently and any control operating before 20 s is defeated when determining P_i (USA).
- 6.1: Class 0 appliances are allowed (Canada, Japan, USA).
- 6.1: Household vacuum cleaners are required to be class II or class III (Denmark and Norway).
- 6.2: IPX4 is not required (USA).
- 7.1: The additional marking for appliance outlets for accessories is not required (USA).
- 7.1: Appliance and outlet ratings are to be marked in amps. (USA).
- 10.1: The power input of booster settings is taken into account (USA).
- 11.3: Surface temperatures are measured with thermocouples (USA).
- 11.5: Booster settings are activated every 2 min out of 8 min (USA).
- 11.7: The test is carried out with one-third of the cord unreeled until steady conditions are established (USA).
- 11.8: Surface temperature limits are different (USA).
- 15.2: The test is carried out differently (USA).
- 16.3: The test is carried out differently (USA).
- 21.106 The test is carried out differently (USA).

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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 and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

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.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

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.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

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

1 Scope

This clause of Part 1 is replaced by the following.

This International 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. It also applies to **centrally-sited vacuum cleaners** and **automatic battery-operated cleaners**.

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

Battery-operated appliances and other DC supplied appliances are within the scope of this standard. Dual supply appliances, either mains-supplied or battery-operated, are regarded as **battery-operated appliances** when operated in the battery mode.

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 101 Examples of such appliances are appliances intended to be used for normal housekeeping purposes in hotels, offices, schools, hospitals and similar premises.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - lack of experience and knowledgeprevents them from using the appliance safely without supervision or instruction;
- children playing with the appliance.

NOTE 102 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can 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.

NOTE 103 This standard does not apply to

- appliances intended 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);
- wet and dry vacuum cleaners, including power brush, for commercial use (IEC 60335-2-69).

2 Normative references

This clause of Part 1 is applicable except as follows.

Addition:

IEC 60584-1, *Thermocouples – Part 1: EMF specifications and tolerances*

IEC TS 62885-1: 2018, *Surface cleaning appliances – Part 1: General requirements on test material and test equipment*

ISO 216, *Writing paper and certain classes of printed matter – Trimmed sizes – A and B series, and indication of machine direction*

ISO 6344-2, *Coated abrasives – Grain size analysis – Part 2: Determination of grain size distribution of macrogrits P12 to P220*

ISO 7010:2011, *Graphical symbols – Safety colours and safety signs – Registered safety signs*

ISO 14688-1, *Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description*