

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Household and similar electrical appliances – Safety
Part 2-69: Particular requirements for wet and dry vacuum cleaners, including
power brush, for commercial use**

**Appareils électrodomestiques et analogues – Sécurité –
Partie 2-69: Exigences particulières pour les aspirateurs fonctionnant en
présence d'eau ou à sec, y compris les brosses motorisées, à usage commercial**



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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references.....	9
3 Terms and definitions	9
4 General requirement.....	13
5 General conditions for the tests.....	13
6 Classification.....	13
7 Marking and instructions	14
8 Protection against access to live parts	17
9 Starting of motor-operated appliances.....	17
10 Power input and current.....	17
11 Heating	18
12 Void	19
13 Leakage current and electric strength at operating temperature	19
14 Transient overvoltages.....	19
15 Moisture resistance	19
16 Leakage current and electric strength.....	21
17 Overload protection of transformers and associated circuits.....	21
18 Endurance.....	21
19 Abnormal operation	22
20 Stability and mechanical hazards	23
21 Mechanical strength.....	24
22 Construction.....	26
23 Internal wiring.....	28
24 Components.....	28
25 Supply connection and external flexible cords	29
26 Terminals for external conductors	30
27 Provision for earthing.....	30
28 Screws and connections	30
29 Clearances, creepage distances and solid insulation	30
30 Resistance to heat and fire	30
31 Resistance to rusting	31
32 Radiation, toxicity and similar hazards	31
Annexes	36
Annex A (normative) Routine tests	37
Annex B (normative) Appliances powered by rechargeable batteries that are recharged in the appliance.....	38
Annex S (normative) Battery-operated appliances powered by batteries that are non-rechargeable or not recharged in the appliance	39
Annex AA (normative) Particular requirements for vacuum cleaners and dust extractors for the collection of hazardous dusts	40

Annex BB (informative) List of dusts which present an explosion risk when subject to ignition conditions	52
Annex CC (informative) Particular requirements for vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts	58
Annex DD (normative) Particular requirements for vacuum cleaners for use in ESD protected areas	68
Annex EE (informative) Emission of acoustical noise	71
Annex FF (informative) Emission of vibration	80
Annex GG (normative) Particular requirements for mobile wet vacuum cleaners for rescue and firefighting services (MWF).....	81
Bibliography	86
Figure 101 – Impact test apparatus	32
Figure 102 – Apparatus for testing the abrasion resistance of current-carrying hoses	33
Figure 103 – Apparatus for testing the resistance to flexing of current-carrying hoses	34
Figure 104 – Configuration of the hose for the freezing treatment	34
Figure 105 – Flexing positions for the hose after removal from the freezing cabinet.....	35
Figure 106 – Probe for measuring surface temperatures	35
Figure AA.1 – Warning label for dust class H machines	48
Figure AA.2 – Warning label for dust class L and dust M machines	49
Figure AA.3 – Test method for essential filter material	49
Figure AA.4 – In situ essential filter element test	50
Figure AA.5 – Assembled machine test	50
Figure AA.6 – Sequence and selection of tests according to Clause 22	51
Figure CC.1 – Non-metallic parts enclosing collected combustible dust	67
Figure CC.2 – Areas considered free of combustible dust	67
Figure EE.1 – Position of vacuum cleaners and its accessories.....	76
Figure EE.2 – Position of upright machines	78
Figure EE.3 – Position of backpack vacuum cleaners	79
Figure GG.1 – MWF symbol: wet vacuum cleaners intended for rescue and firefighting services.....	85
Figure GG.2 – Warning label for flammable or combustible liquids	85
Table 101 – Maximum temperature rises for specified accessible external surfaces under normal operating conditions.....	18
Table 12 – Pull force and torque	30
Table AA.1 – Penetration limits	43
Table BB.1 – Explosion parameters.....	52

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2-69: Particular requirements for wet and dry vacuum cleaners,
including power brush, for commercial use**

FOREWORD

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International Standard IEC 60335-2-69 has been prepared by subcommittee 61J: Electrical motors, powered cleaning appliances for commercial use, of IEC technical committee 61: Safety of household and similar electrical appliances.

This fifth edition cancels and replaces the fourth edition published in 2012. It constitutes a technical revision.

The principal changes in this edition as compared with the third edition of IEC 60335-2-69 are as follows (minor changes are not listed):

- the scope has been revised editorially to avoid misunderstandings;
- terms and definitions has been revised with regard to the requirements revised;

- the standard has been revised in general and updated regarding state-of-the-art, as far as necessary, in particular some changes have been made to Clauses 15, 22 and 25;
- the standard has been aligned with the newest amendment of IEC 60335-1:2010+A1:2013;
- Annex AA was revised and restructured;
- Annex CC was revised;
- general additions for vacuum cleaners with blowing functions have been introduced;
- a new Annex GG ‘Particular requirements for mobile wet vacuum cleaners for rescue and firefighting services (MWF)’ was added.

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

FDIS	Report on voting
61J/637/FDIS	61J/646/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 publication has been drafted in accordance with the ISO/IEC Directives – Part 2.

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 wet and dry vacuum cleaners, including power brush, for commercial use.

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:

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

NOTE 3 The following part types are used:

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

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.

- 22.207: A mobile power generator in accordance with DIN 14685 is required (Germany)
- 25.6: A safety plug in accordance with DIN 49443 is required. (Germany)

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.

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.

The committee has decided that the contents of this 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.

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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 intent 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 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use

1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electrical motor-operated vacuum cleaners, including **back-pack vacuum cleaners**, and **dust extractors**, for wet suction, dry suction, or wet and dry suction, intended for commercial indoor or outdoor use with or without attachments. They may be provided with a blowing or inflating function.

It also deals with the safety of **centrally-sited vacuum cleaners**, excluding the installation of the system.

NOTE 101 Attention is drawn to the fact that additional requirements for the safe installation of **centrally-sited vacuum cleaners** are not addressed by this standard but need to be taken into account.

NOTE 102 This standard applies to machines for **commercial use**. The following list, although not comprehensive, gives an indication of locations that are included in the scope:

- public use areas such as hotels, schools, hospitals;
- industrial locations, for example factories and manufacturing shops;
- retail outlets, for example shops and supermarkets;
- business premises, for example offices and banks;
- all uses other than normal housekeeping purposes.

They are not equipped with a traction drive. The following power systems are covered:

- mains powered motors up to a **rated voltage** of 250 V for single-phase appliances and 480 V for other appliances;
- battery powered motors.

This standard also applies to machines handling **hazardous dust**, such as asbestos.

NOTE 103 Additional requirements for machines handling **hazardous dust** are given in Annex AA. Attention is drawn to the fact that in many countries additional requirements on hazardous substances might apply.

NOTE 104 Radioactive substances are not covered by definition of **hazardous dust** for the purposes of this standard.

This standard does not apply to

- vacuum cleaners and water-suction cleaning appliances for household use (IEC 60335-2-2);
- floor treatment machines for **commercial use** (IEC 60335-2-67, IEC 60335-2-72);
- spray extraction machines for **commercial use** (IEC 60335-2-68);
- hand-held mains-operated electrical garden blowers, vacuums and blower vacuums (IEC 60335-2-100);
- hand-held and transportable motor-operated electric tools (IEC 60745 series, IEC 61029 series, IEC 62841 series);
- appliances for medical purposes (IEC 60601-1);