

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Household and similar electrical appliances – Safety –  
Part 2-79: Particular requirements for high pressure cleaners and steam  
cleaners**

**Appareils électrodomestiques et analogues – Sécurité –  
Partie 2-79: Exigences particulières pour les appareils de nettoyage à haute  
pression et les appareils de nettoyage à vapeur**

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## CONTENTS

FOREWORD .....	4
INTRODUCTION .....	7
1 Scope .....	8
2 Normative references .....	8
3 Terms and definitions .....	9
4 General requirement .....	12
5 General conditions for the tests .....	12
6 Classification .....	13
7 Marking and instructions .....	14
8 Protection against access to live parts .....	20
9 Starting of motor-operated appliances .....	20
10 Power input and current .....	20
11 Heating .....	20
12 Charging of metal-ion batteries .....	21
13 Leakage current and electric strength at operating temperature .....	21
14 Transient overvoltages .....	21
15 Moisture resistance .....	21
16 Leakage current and electric strength .....	23
17 Overload protection of transformers and associated circuits .....	24
18 Endurance .....	24
19 Abnormal operation .....	25
20 Stability and mechanical hazards .....	27
21 Mechanical strength .....	28
22 Construction .....	30
23 Internal wiring .....	34
24 Components .....	34
25 Supply connection and external flexible cords .....	35
26 Terminals for external conductors .....	36
27 Provision for earthing .....	36
28 Screws and connections .....	36
29 Clearances, creepage distances and solid insulation .....	36
30 Resistance to heat and fire .....	36
31 Resistance to rusting .....	36
32 Radiation, toxicity and similar hazards .....	36
Annexes .....	40
Annex B (normative) .....	41
Annex AA (normative) Requirements to avoid backsiphonage .....	42
Annex BB (normative) Analysis method for determining the necessary safety device to prevent backsiphonage .....	48
Annex CC (informative) Emission of acoustical noise .....	51
Annex DD (informative) Emission of vibration .....	53

Annex EE (informative) Model test report for vibration emission at handles of high-pressure cleaners .....	64
Bibliography .....	66
Index of defined terms .....	67
Figure 101 – Warning symbol.....	37
Figure 102 – Impact test apparatus .....	38
Figure 103 – Reactions on handle.....	38
Figure 104 – Warning symbol: Machine not suitable for connection to the potable water mains .....	39
Figure 105 – Warning symbol: Do not inhale fumes.....	39
Figure AA.1 – Arrangement for the durability test on backflow preventers with reduced pressure zone .....	47
Figure BB.1 – Example for an air break to drain .....	50
Figure DD.1 – Trigger gun .....	53
Figure DD.2 – Trigger gun with additional side handle .....	54
Figure DD.3 – Measurement locations: Trigger gun, main and secondary measuring point .....	56
Figure DD.4 – Measurement locations: Trigger gun with additional side handle, main and secondary measuring point .....	57
Figure DD.5 – Operating conditions – Position of spraying device.....	59
Table 101 – Degree of protection against harmful ingress of water .....	13
Table 12 – Pull force and torque .....	35
Table AA.1 – Nominal size versus durability test flow rate .....	46
Table BB.1 – Matrix of the safety devices appropriate to fluid categories .....	49
Table DD.1 – Description and units of the symbols used .....	55
Table EE.1 – General information and reported results .....	64
Table EE.2 – Measurement results for one machine .....	65

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
SAFETY –****Part 2-79: Particular requirements  
for high pressure cleaners and steam cleaners**

## 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 60335-2-79 has been prepared by subcommittee 61J: Electrical motor-operated cleaning appliances for commercial use, of IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2016. It constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition (minor changes are not listed):

- editorial and technical alignment with IEC 60335-1:2020;
- clarification on hand-held and battery-operated high pressure cleaners;
- general editorial improvements.

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

Draft	Report on voting
61J/739/CDV	61J/746A/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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 sixth edition (2020) 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: Particular requirements for high pressure cleaners and steam cleaners.

When a particular sub clause of Part 1 is not mentioned in this part 2, that sub clause 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 sub clause 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.

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.

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 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 2-79: Particular requirements for high pressure cleaners and steam cleaners

#### 1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of high-pressure cleaners without traction drive, intended for household and commercial indoor or outdoor use, having a **rated pressure** not less than 2,5 MPa and not exceeding 35 MPa.

It also applies to steam cleaners and those parts of hot water high pressure cleaners incorporating a steam stage which have a capacity not exceeding 100 l, a **rated pressure** not exceeding 2,5 MPa and a product of capacity and **rated pressure** not exceeding 5 MPa·l.

They are not equipped with a traction drive. The following power systems of the drive for the high pressure pump are covered:

- mains powered motors up to a **rated voltage** of 250 V for single-phase machines and 480 V for other machines,
- battery-operated motors,
- internal combustion engines,
- hydraulic or pneumatic motors.

This standard does not apply to

- high pressure water jet machines having a **rated pressure** exceeding 35 MPa;

NOTE 101 In Europe, those machines are covered by EN 1829-1.

- liquid or steam cleaners intended for domestic use (IEC 60335-2-54);
- hand-held and transportable motor-operated electric tools (IEC 60745 series, IEC 61029 series, IEC 62841 series);
- appliances for medical purposes (IEC 60601);
- agricultural sprayers (ISO 4254-6);
- non-liquid, solid abrasive cleaners;
- machines designed to be part of a production process;
- machines designed for use in corrosive or explosive environments (dust, vapour or gas);
- machines designed for use in vehicles or on board of ships or aircraft.

NOTE 102 Attention is drawn to the fact that in many countries additional requirements on the safe use of the equipment covered can be specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

#### 2 Normative references

This clause of Part 1 is applicable except as follows.