

INTERNATIONAL STANDARD

COMMENTED VERSION

**Surface cleaning appliances -
Part 2: Dry vacuum cleaners for household or similar use - Methods for
measuring the performance**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Surface cleaning appliances -
Part 2: Dry vacuum cleaners for household or similar use - Methods for
measuring the performance**

FOREWORD

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This commented version (CMV) of the official standard IEC 62885-2:2026 edition 3.0 allows the user to identify the changes made to the previous IEC 62885-2:2021 edition 2.0. Furthermore, comments from IEC SC 59F experts are provided to explain the reasons of the most relevant changes, or to clarify any part of the content.

A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text. Experts' comments are identified by a blue-background number. Mouse over a number to display a pop-up note with the comment.

This publication contains the CMV and the official standard. The full list of comments is available at the end of the CMV.

IEC 62885-2 has been prepared by subcommittee 59F: Surface cleaning appliances, of IEC technical committee 59: Performance of household and similar electrical appliances. It is an International Standard.

This third edition of IEC 62885-2 cancels and replaces the second edition published in 2021. This edition constitutes a technical revision.

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

- a) relocation of RSB annexes to [IEC TS 62885-1 \[1\]](#);
- b) relocation of remaining test materials, test dust, and equipment to [IEC TS 62885-1 \[1\]](#);
- c) reduced number of test strokes from 5 double strokes to 3 double strokes except as specifically required;
- d) relocated requirements for cordless products, except for battery-related items, from [IEC 62885-4 \[2\]](#) to a new [Annex D](#);
- e) added definition and instructions for a universal dry nozzle;
- f) relocated air data equipment to [IEC TS 62885-1 \[1\]](#), relocated formulae to [5.11](#), and made revisions to air data requirements;
- g) relocated dust re-emission equipment to [IEC TS 62885-1 \[1\]](#).

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

Draft	Report on voting
59F/569/FDIS	59F/576/RVD

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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all the parts in the IEC 62885 series, under the general title *Surface cleaning appliances*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

1 Scope

This part of IEC 62885 is applicable for measurements of the performance of mains-operated and cordless dry vacuum cleaners, including water filter vacuum cleaners for household or similar use.

Table D.1 of Annex D is applicable to measurements of the performance of cordless dry vacuum cleaners for household use or under conditions similar to those in households. The results obtained under this annex are intended to be comparable to the results obtained for mains-operated vacuum cleaners. The purpose of Annex D is to specify additional requirements for measurements of cordless dry vacuum cleaners. **1**

NOTE 1 Annex D is not intended for mains-operated vacuum cleaners or cleaning robots.

NOTE 2 Cleaning robots are evaluated to IEC/ASTM 62885-7 [3].

NOTE 3 Handheld dry vacuum cleaners are excluded, except for 5.10.2 and 5.11.

NOTE 4 Measurements of the performance of mains-operated commercial dry vacuum cleaners are found in IEC 62885-8 [4].

The purpose of this document is to specify essential performance characteristics of dry vacuum cleaners which are of interest to users and to describe methods for measuring these characteristics.

NOTE 5 Due to the influence of environmental conditions, variations in time, origin of test materials and proficiency of the operator, some of the described test methods will give more reliable results when applied for comparative testing of a number of appliances at the same time, in the same laboratory and by the same operator.

NOTE 6 The methods here can be applied with modifications for surface-cleaning product types or technologies not currently covered within the scope.

For safety requirements, reference is made to IEC 60335-1:2020 [5] and IEC 60335-2-2 [6].

A recommendation on information for the consumer at the point of sale is given in Annex B.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

~~IEC 60688, Electrical measuring transducers for converting A.C. and D.C. electrical quantities to analogue or digital signals~~

IEC 60704-2-1, Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for dry vacuum cleaners

IEC 62301:2011, Household electrical appliances - Measurement of standby power

IEC TS 62885-1:20202026, Surface cleaning appliances - Part 1: General requirements on test material and test equipment

~~ISO 5167-1, Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements~~

~~ISO 12103-1, Road vehicles — Test dust for filter evaluation — Part 1: Arizona test dust~~

Bibliography

~~IEC 60704-1, Household and similar electrical appliances — Test code for the determination of airborne acoustical noise — Part 1: General requirements~~

~~IEC 60704-3, Household and similar electrical appliances — Test code for the determination of airborne acoustical noise — Part 3: Procedure for determining and verifying declared noise emission values~~

~~IEC 62885-3, Surface cleaning appliances — Part 3: Wet carpet cleaning appliances — Methods for measuring the performance~~

~~IEC 62929, Cleaning robots for household use — Dry cleaning: Methods of measuring performance~~

~~ISO 1763, Carpets — Determination of number of tufts and/or loops per unit length and per unit area~~

~~ISO 1765, Machine-made textile floor coverings — Determination of thickness~~

~~ISO 1766, Textile floor coverings — Determination of thickness of pile above the substrate~~

~~ISO 1833 (all parts), Textiles — Quantitative chemical analysis~~

~~ISO 2060, Textiles — Yarn from packages — Determination of linear density (mass per unit length) by the skein method~~

~~ISO 2061, Textiles — Determination of twist in yarns — Direct counting method~~

~~ISO 2424, Textile floor coverings — Vocabulary~~

~~ISO 2439, Flexible cellular polymeric materials — Determination of hardness (indentation technique)~~

~~ISO 3386-1, Polymeric materials, cellular flexible — Determination of stress-strain characteristics in compression — Part 1: Low-density materials~~

~~ISO 5011, Inlet air cleaning equipment for internal combustion engines and compressors — Performance testing~~

~~ISO 6989, Textile fibres — Determination of length and length distribution of staple fibres (by measurement of single fibres)~~

~~ISO 8543, Textile floor coverings — Methods for determination of mass~~

~~ISO 29463-1, High-efficiency filters and filter media for removing particles in air — Part 1: Classification, performance testing and marking~~

~~ASTM F1977, Standard Test Method for determining Initial, Fractional, Filtration Efficiency of a Vacuum Cleaner System~~

~~ASTM F2608, Standard Test Method for determining the change in Room Air Particulate Count as a result of the Vacuum Cleaning process~~

~~ASTM F431, Standard Specification for Air Performance Measurement Plenum Chamber for Vacuum Cleaners~~

~~BS 4223, Methods for determination of constructional details of textile floor coverings with yarn pile~~

~~BS 8459, Determination of extractable matter in textiles. Method~~

~~EN 1307, Textile floor coverings — Classification~~

~~EN 1822-1 High efficiency air filters (EPA, HEPA, and ULPA) — Part 1: Classification, performance testing, marking~~

~~IEST-RP-GC001.5, HEPA and ULPA Filters~~

~~IEST-RP-GC007.2, Testing ULPA Filters~~

- [1] IEC TS 62885-1, *Surface cleaning appliances - Part 1: General requirements on test material and test equipment*
- [2] IEC 62885-4, *Surface cleaning appliances - Part 4: Cordless dry vacuum cleaners for household or similar use - Methods for measuring the performance*
- [3] IEC/ASTM 62885-7, *Surface cleaning appliances - Part 7: Dry-cleaning robots for household or similar use - Methods for measuring the performance*
- [4] IEC 62885-8, *Surface cleaning appliances - Part 8: Dry vacuum cleaners for commercial use - Methods for measuring the performance*
- [5] IEC 60335-1:2020, *Household and similar electrical appliances - Safety - Part 1: General requirements*
- [6] IEC 60335-2-2, *Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances*
- [7] IEC TS 62885-1:2026, *Surface cleaning appliances - Part 1: General requirements on test material and test equipment*
- [8] ASTM F431, *Standard Specification for Air Performance Measurement Plenum Chamber for Vacuum Cleaners*
- [9] ISO 5167-1:2022, *Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements*
- [10] ASTM F2608, *Standard Test Method for determining the change in Room Air Particulate Count as a result of the Vacuum Cleaning process*
- [11] ASTM F1977, *Standard Test Method for determining Initial, Fractional, Filtration Efficiency of a Vacuum Cleaner System*
- [12] IEC 60704-3, *Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 3: Procedure for determining and verifying declared noise emission values*

- [13] IEC 62885-4, *Surface cleaning appliances - Part 4: Cordless dry vacuum cleaners for household or similar use - Methods for measuring the performance*
- [14] IEC 62885-10, *Battery-related items for surface cleaning appliances for household or similar use - Methods for measuring the performance*