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

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

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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.

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 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 62885-1:2026, *Surface cleaning appliances - Part 1: General requirements on test material and test equipment*

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

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

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

IEST-RP-CC001, HEPA and ULPA Filters

ISO 29643-1, High efficiency filters and filter media for removing particles in air — Part 1: Classification, performance, testing and marking

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

– IEC Electropedia: available at https://www.electropedia.org/
– ISO Online browsing platform: available at https://www.iso.org/obp

3.1
active depth of the dry cleaning head
distance from the front edge of the dry cleaning head (3.3) to its rear edge or a line 10 mm behind the rear edge of the suction opening on the underside of the dry cleaning head (3.3), whichever is the shortest

3.2
active dry nozzle
dry cleaning head (3.3) provided with a driven agitation device to assist dirt removal

Note 1 to entry: The agitation device can be driven by an incorporated electric motor (motorized nozzle), an incorporated turbine powered by the air flow (air-turbine nozzle), or an incorporated friction or gear mechanism actuated by moving the dry cleaning head (3.3) over the surface to be cleaned (mechanical nozzle).

3.3
dry cleaning head
plain nozzle or brush attached to a connecting tube (3.23), or a power nozzle, separate or part of the cleaner housing, and that part of a dry vacuum cleaner (3.8) which is applied to a surface to be cleaned

3.4
dry cleaning head width
B
external maximum width of the dry cleaning head (3.3), in metres

3.5
cordless active dry nozzle
dry cleaning head (3.3) provided on a mains-operated machine with an agitation device to assist dirt removal driven by a battery-operated motor

3.6
cylinder dry vacuum cleaner
portable dry vacuum cleaner (3.8) having a nozzle separated from the cleaner housing by a hose

Note 1 to entry: In use, only the nozzle is guided over the surface area to be cleaned.

Note 2 to entry: These dry vacuum cleaners are generally floor-supported.

Note 3 to entry: The dry vacuum cleaner (3.8) can have detachable passive or active dry nozzles (3.2), attachments, and tubes (3.23) for both floor and above the floor cleaning.