

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Surface cleaning appliances –
Part 4: Cordless dry vacuum cleaners for household or similar use – Methods for
measuring the performance

Appareils de nettoyage des sols –
Partie 4: Aspirateurs à sec sans fil à usage domestique ou analogue – Méthodes
de mesure de l'aptitude à la fonction



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SURFACE CLEANING APPLIANCES –**Part 4: Cordless dry vacuum cleaners for household or similar use –
Methods for measuring the performance****AMENDMENT 1****FOREWORD**

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Amendment 1 to IEC 62885-4:2020 has been prepared by subcommittee 59F: Surface Cleaning appliances, of IEC technical committee 59: Performance of household and similar electrical appliances.

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

Draft	Report on voting
59F/472/FDIS	59F/477/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 Amendment 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/.

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- withdrawn,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

In the entire document, replace "IEC 62885-2:2016" with "IEC 62885-2:2021".

4.6.1.102 Battery conditions for testing

Replace the heading with:

4.6.102 Battery conditions for testing

In the third paragraph, replace "5.6" with "5.9" and "5.8 to 5.11" with "5.11 to 5.14".

5.8.1 Purpose

Replace the heading with:

5.11.1 Procedure

Replace "5.8.1" with "5.11.1"

5.8.5 Determination of air data

Replace the heading with:

5.11.5 Determination of air data

Replace "5.8.5" with "5.11.5"

5.9.2.1 Test conditions

Delete this subclause.

5.9.2.3 Procedure

Replace the heading with:

5.12.2.3 Procedure

Replace "5.9.2.3" with "5.12.2.3".

5.10 Total emissions while vacuum cleaning

Replace the heading with:

5.13 Total emissions while vacuum cleaning

Replace "5.10" with "5.13".

5.11.5 Verification of particle transport

Replace the heading with:

5.14.5.2 Verification of particle transport

Replace "5.11.5" with "5.14.5.2".

5.11.6 Test procedure

Replace the heading with:

5.14.4.3 Test procedure

Replace "5.11.6" with "5.14.4.3".

Replace the two occurrences of "7.3.8.5" with "7.3.8.4".

5.11.6.101 Single particle counter procedure

Replace the heading with:

5.14.4.3.2 Single particle counter procedure

Replace both occurrences of "5.11.3" with "5.14.3".

Add, before the first paragraph, the following new paragraph:

Subclause 5.14.4.3.2 of IEC 62885-2:2021 is replaced by:

5.11.6.102 Dual particle counter procedure

Replace the heading with:

5.14.4.3.3 Dual particle counter procedure

Replace both occurrences of "5.11.3" with "5.14.3".

Add, before the first paragraph, the following new paragraph:

Subclause 5.14.4.3.3 of IEC 62885-2:2021 is replaced by:

Add the following heading and related content:

5.14.4.4.2 Evaluation of dust re-emission, logarithmic dust penetration and overall filtration efficiency

Subclause 5.14.4.4.2 of IEC 62885-2:2021 applies with the 6th formula replaced with the following:

$$(R_{UL})_{0,3-10\ 0,95} = 1 - (E_{LL})_{0,3-10\ 0,95}$$

<https://standards.iteh.ai/catalog/standards/sist/31131e69-1564-4c91-a7b6-7eadcbf39f45/iec-62885-4-2020-amd1-2023>

Add the following heading and related content:

5.14.4.5 Particle concentration and dilution

Subclause 5.14.4.5 of IEC 62885-2:2021 applies with the 1st formula replaced with the following:

$$Z_{\text{SAMPLE}} < 0,2 \times Z_{\text{COUNTER_MAX}}$$

Add the following heading and related content:

5.14.5.4.2 Evaluation of fractional filtration efficiency

Subclause 5.14.5.4.2 of IEC 62885-2:2021 applies with the determination of the 95% lower confidence limits replaced with the following formula:

$$\text{If: } Z(k)_{\text{in}} > 50 : (Z_{LL})(k)_{\text{in}0,95} = Z(k)_{\text{in}} - 1,96 \times (Z(k)_{\text{in}})^{\frac{1}{2}}$$

$$\text{If: } Z(k)_{\text{in}} \leq 50 : (Z_{LL})(k)_{\text{in}0,95} \text{ from Table 1.}$$

The determination of corresponding upper limits of the 95 % confidence range is replaced with the following formula:

$$\text{If: } Z(k)_{\text{ex}} > 50: (Z_{\text{UL}}(k)_{\text{ex}0,95} = Z(k)_{\text{ex}} - 1,96 \times (Z(k)_{\text{ex}})^{\frac{1}{2}}$$

If: $Z(k)_{\text{ex}} \leq 50$: $Z_{\text{UL}}(k)_{\text{ex}0,95}$ from Table 1.

The symbols of the upper limit of confidence for partial sum class k from exhaust measurements is replaced with the following:

$(Z_{\text{UL}})(k)_{\text{ex}0,95}$

5.101.1 Test equipment

Replace "7.2.1.3.2" with "7.2.1.1".

Replace "5.8" with "5.11".

5.101.2 Test setup

Replace "5.8.4.2" with "5.11.4".

6.16.3.5 Energy consumption of cordless active nozzles

Delete this subclause

6.16.3.6 Energy consumption of powered battery pack fully charged

Delete this subclause

6.16.3.7 Energy consumption of powered battery pack after its use

Delete this subclause

Add the following new content:

6.16.4 Energy consumption of cordless active nozzles

Not applicable.

7 Test material and equipment

Replace the existing content with the following:

Clause 7 of IEC 62885-2:2021 applies with the following modification:

7.3.7.5 Correction to standard air density at the rated voltage value

Replace the formula for D_m with:

$$D_m = \left(\frac{P_m + \Delta P_{RH}}{101,3} \right) \times \left(\frac{293}{t_m + 273} \right)$$

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Annex C
(normative)

Guidance specification on verified carpets

Replace "(normative)" with "(informative)"

Replace the heading with:

Reference vacuum cleaner system RSB

Annex D
(informative)

Reference vacuum cleaner system (RSB)

Replace the heading with:

Maintenance of the RSB

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Annex E

<https://standards.iteh.ai/catalog/standards/iec/62885-4-2020-amd1-2023>
(informative)

Maintenance of the RSB

Replace "(informative)" with "(normative)"

Replace the heading with:

Hard floorboard realization, floor support and floor pattern

Annex F
(informative)

Maximum operational power

Not applicable

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[IEC 62885-4:2020/AMD1:2023](https://standards.iteh.ai/catalog/standards/sist/31131e89-15b4-4c91-a7b6-7eadcbf39f45/iec-62885-4-2020-amd1-2023)

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