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Surface cleaning appliances –
Part 3: Wet carpet cleaning appliances – Methods for measuring the
performance

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SURFACE CLEANING APPLIANCES –**Part 3: Wet carpet cleaning appliances –
Methods for measuring the performance**

FOREWORD

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International Standard IEC 62885-3 has been prepared by subcommittee 59F: Surface cleaning appliances, of IEC technical committee 59: Performance of household and similar electrical appliances.

This first edition cancels and replaces the first edition of IEC 60312-2 published in 2010. This edition constitutes a technical revision.

This edition includes a complete revision of the wet carpet cleaning test in Clause 5 and changes related to this test. The International Standard has also been limited to tests on carpets.

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

FDIS	Report on voting
59F/269/FDIS	59F/273/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.

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 publication will remain unchanged until the stability date indicated on the IEC web site 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- withdrawn,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.

A bilingual version of this publication may be issued at a later date.

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SURFACE CLEANING APPLIANCES –

Part 3: Wet carpet cleaning appliances – Methods for measuring the performance

1 Scope

This part of IEC 62885 is applicable to wet cleaning appliances for household use for carpet cleaning in or under conditions similar to those in households. This part of IEC 62885 is not applicable to steam cleaning vacuums.

The purpose of this standard is to:

- specify the essential performance characteristics of wet cleaning appliances being of interest to users
- describe methods for measuring these characteristics and
- be complementary to the methods for dry vacuum cleaners in IEC 60312-1.

NOTE Due to influence of environmental conditions, variations in time, origin of test materials and proficiency of the operator, most 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.

See IEC 60335-1 and IEC 60335-2-2 for safety requirements.

Wet hard floor tests are under consideration and are intended to be published in a separate standard.

2 Normative references

<https://standards.iteh.ai/>
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The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60312-1, *Vacuum cleaners for household use – Part 1: Dry vacuum cleaners – Methods for measuring the performance*

ISO 554, *Standard atmospheres for conditioning and/or testing – Specifications*

ASTM F2828-12, *Standard test method for assessing carpet cleaning effectiveness in terms of visual appearance change when cleaned with a wet extraction cleaning system*

ASTM D6540, *Standard test method for accelerated soiling of pile yarn floor covering*

AATCC Test Method 122-2009, *Carpet soiling: service soiling method*

3 Terms and definitions

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

**3.1
cleaning head**

plain nozzle or a brush attached to a connecting tube, or a power nozzle, separate or part of the appliance housing, and that part of a vacuum cleaner which is applied to a surface to be cleaned

[SOURCE: IEC 60312-1:2010, 3.3]

**3.2
active nozzle**

cleaning head provided with an agitation device to assist dirt removal

Note 1 to entry: The agitation device may 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 cleaning head over the surface to be cleaned (mechanical nozzle).

[SOURCE: IEC 60312-1:2010, 3.4]

**3.3
self-propelled cleaning head**

cleaning head provided with a propulsion mechanism

**3.4
extractor**

wet cleaning appliance with the cleaning head forming an integral part of or directly connected to the cleaner housing, the cleaning head may be provided with an agitation device to assist dirt removal and the complete cleaner housing being moved over the surface to be cleaned by means of an attached handle

**3.5
forward stroke**

forward movement of a stroke pattern

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Note 1 to entry: On test carpets, forward strokes are normally carried out in the direction of the carpet pile (direction of manufacture) unless otherwise indicated.

[SOURCE: IEC 60312-1:2010, 3.15]

**3.6
return stroke**

backward movement of a stroke pattern

[SOURCE: IEC 60312-1:2010, 3.16]

**3.7
stroke speed**

speed of the cleaning head, moved as uniformly as possible, during a forward or a return stroke

[SOURCE: IEC 60312-1:2010, 3.12]

**3.8
stroke length**

distance between the two parallel lines defining the limits of a stroke pattern

[SOURCE: IEC 60312-1:2010, 3.13]

3.9

stroke pattern

arrangement of the forward and return strokes on the surface to be cleaned

[SOURCE: IEC 60312-1:2010, 3.10]

3.10

cleaning cycle

for a given measurement, the sequence of forward and return strokes to be carried out at a specified stroke speed over the test area according to the appropriate stroke pattern

3.11

wet cleaning appliance

electrically operated appliance that applies cleaning solution and removes soil together with solution from the surface to be cleaned by an airflow created by a vacuum developed within the unit

Note 1 to entry: The material and solution thus removed is separated in the appliance and the cleaned dry suction air is returned to the ambient.

3.12

passive nozzle

cleaning head without any agitation devices

[SOURCE: IEC 60312-1:2010, 3.5]

3.13

cleaning head width

external maximum width of the cleaning head in millimetres

[SOURCE: IEC 60312-1:2010, 3.7, modified – "metres" has been replaced by "millimetres".]

3.14

steam vacuum cleaner

electrically operated appliance producing wet steam heat (steam generated from water only or a water solution mix) to moisten an absorbent pad for surface removal of soil stains

Note 1 to entry: A steam vacuum cleaner may employ an additional dry cleaning function to remove dry surface debris.

Note 2 to entry: Evaluation of the cleaning performance of a steam vacuum cleaner on hard surfaces is covered under IEC 60312-4.

4 General conditions for testing

4.1 Atmospheric conditions

Unless otherwise specified, the test procedures and measurements shall be carried out under the following conditions (in accordance with ISO 554):

Temperature:	(23 ± 2) °C
Relative humidity:	(50 ± 5) %
Air pressure:	86 kPa to 106 kPa

Temperature and humidity conditions within the specified ranges are required for good repeatability and reproducibility. Care should be taken to avoid changes during a test.