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INTERNATIONAL STANDARD

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

FOREWORD

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IEC 60704-2-1 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 fifth edition cancels and replaces the fourth edition published in 2020. This edition constitutes a technical revision.

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

- a) alignment with IEC 60704-1:2021;
- b) addressing consumer relevant testing aspects;
- c) robustness of standards and closing potential loopholes
- d) enlarged scope to include noise measurement on **docking stations**.

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

Draft	Report on voting
59F/567/FDIS	59F/573/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.

This document is intended to be used in conjunction with IEC 60704-1:2021, *Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 1: General requirements*.

The relevant text of IEC 60704-1:2021 as amended by this document establishes the test code for **dry vacuum cleaners**.

This document supplements or modifies the corresponding clauses in IEC 60704-1:2021. When a particular subclause of IEC 60704-1:2021 is not mentioned in this document, that subclause is applicable as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specifications or explanatory matter in Part 1 should be adapted accordingly.

Subclauses, tables, and figures that are additional to those in IEC 60704-1:2021 are numbered starting from 101. Additional annexes are lettered AA, BB, etc.

Unless notes are in a new subclause or involve notes in IEC 60704-1:2021, they are numbered starting from 101, including those in a replaced clause or subclause.

In this standard, the following print types are used:

- terms defined in Clause 3: **bold type**.

A list of all the parts in the IEC 60704 series, published under the general title *Household and similar electrical appliances - Test code for the determination of airborne acoustical noise*, 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.

INTRODUCTION

The measuring conditions specified in this document provide for sufficient accuracy in determining the noise emitted and comparing the results of measurements taken by different laboratories, whilst simulating as far as possible the practical use of **dry vacuum cleaners**.

It is recommended to consider the determination of noise levels as part of a comprehensive testing procedure covering many aspects of properties and performance of household vacuum cleaners.

NOTE As stated in the introduction to IEC 60704-1, this test code is concerned with airborne noise only.

1 Scope

Addition:

This document specifies the determination of airborne acoustical noise of mains operated and cordless **dry vacuum cleaners** including their accessories and **docking stations** for household use or under conditions similar to those in households.

For **wet and dry vacuum cleaners**, the dry cleaning function applies. The wet cleaning function is measured in accordance with IEC 60704-2-20.

NOTE 101 Particular requirements for floor cleaning robots are specified in IEC 60704-2-17¹.

This document describes the determination of the noise emission of **dry vacuum cleaners** under normal operating conditions on carpet and hard floor in accordance with IEC 62885-2:—, 4.6².

2 Normative references

Addition:

IEC 60704-2-20, *Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-20: Particular requirements for wet hard floor cleaning appliances*

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

IEC 62885-2:—,² *Surface cleaning appliances - Part 2: Dry vacuum cleaners for household and similar use - Methods for measuring the performance*

Bibliography

Addition:

IEC 60704-2-17:—⁴, *Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-17: Particular requirements for dry-cleaning robots*

⁴ Under preparation. Stage at the date of publication: IEC/CDV 60704-2-17:2026.