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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 38043-2019

**Vacuum cleaners for commercial use - Methods for measuring
performance**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to IEC /PAS62611.2009 "Commercial Vacuum Cleaner Performance Test Method".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 4214.1-2017 General requirements for noise test methods for household and similar electrical appliances (IEC 60704-1.2010,

MOD)

--- GB/T 4214.2-2008 Noise test methods for household and similar electrical appliances - Particular requirements for vacuum cleaners

(IEC 60704-2-1..2000, IDT)

---GB/T 17671-1999 Cement mortar strength test method (ISO method) (idtISO 679.1989)

Household vacuum cleaners - Part 1. Dry vacuum cleaner performance test methods - GB/T 20291.1

(IEC 60312-1.2010, IDT)

This standard was proposed by the China Light Industry Association.

This standard is under the jurisdiction of the National Standardization Technical Committee for Household Appliances (SAC/TC46).

This standard was drafted. China Household Electrical Appliances Research Institute, Jiangsu Midea Cleaning Electric Co., Ltd., Lake Electric Co., Ltd.

Division, Wanyuan Zhongxiang Alliance Technology (Beijing) Co., Ltd., National Household Appliance Quality Supervision and Inspection Center, Suzhou Green Innovation Testing Technology Service Co., Ltd.

Company, Zhejiang Inspection and Quarantine Science and Technology Research Institute.

1 Scope

This standard applies to commercial vacuum cleaners.

The purpose of this standard is to specify the basic performance characteristics of the vacuum cleaner that the user is concerned with and to describe methods for measuring these characteristics.

Note. Due to environmental conditions, time changes, testing materials and the level of operation, the same experiment is performed at the same time when multiple appliance comparison tests are performed.

The chamber is tested by the same operator and most of the test methods will yield more reliable results.

For safety requirements, see IEC 60335-1, IEC 60335-2-2 and IEC 60335-2-69.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

IEC 60312 Household Vacuum Cleaner Performance Test Method
(Vacuumcleanersforhouseholduse-Methodsof

Measuringtheperformance)

Household and similar electrical appliances - Test methods - Part 1. General requirements
(Household and similare-

lectricalappliances-Testcodeforthedeterminationofairborneacousticalnoise-Part
1.Generalre-

Requirements()

Household and similar electrical appliances - Test methods - Part 2-1. Particular
requirements for vacuum cleaners

(Householdandsimilarelectricalappliances-Testcodeforthedeterminationofairborneacoustical
noise-Part 2-1.Particularrequirementsforvacuumcleaners)

Standard atmospheric specifications for ISO 554 conditioning and/or testing
(Standardatmospheresforconditioningand/or tes-

ting-Specifications)

ISO 679 Cement test method strength determination
(Cement-Testmethods-Determinationofstrength)

ISO 5167-1 - Measurement of full-tube fluid flow with differential pressure devices installed
in circular cross-section pipes - Part 1. General principles and
(Measurementoffluidflowbymeansofpressuredifferentialdevicesinsertedincircularcross-sec-
tionconduitsrunningful-Part 1.Generalprinciplesandrequirements)

EN1822 Classification of HEPA and ULPA filters (ClassificationofHEPAandULPAfilters)

Total emissions of ASTM F2608 vacuum cleaners (Totalemissionsof avacuumcleaner)

ASTM F1977 Vacuum filtration efficiency of the vacuum cleaner (Fractionalfiltration
efficiency of avacuumcleaner)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Cleaning head cleaninghead

Passive nozzle, ground brush or power nozzle connected to the suction pipe, separate from
the vacuum cleaner main unit or part of it, for vacuum cleaner

The part that cleans the surface.