

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Household and similar electrical air cleaning appliances – Methods for measuring the performance –  
Part 2-1: Particular requirements for determination of particle reduction**

**Appareils d'épuration d'air électriques domestiques et appareils similaires –  
Méthodes de mesure de l'aptitude à la fonction –  
Partie 2-1: Exigences particulières pour la détermination de la réduction des  
particules**



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INTERNATIONAL  
ELECTROTECHNICAL  
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COMMISSION  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL AIR CLEANING APPLIANCES –  
METHODS FOR MEASURING THE PERFORMANCE –****Part 2-1: Particular requirements for determination of particle reduction**

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IEC 63086-2-1 has been prepared by subcommittee 59N: Electrical air cleaners for household and similar purposes, of IEC technical committee 59: Performance of household and similar electrical appliances, in co-operation with ISO technical committee 142: Cleaning equipment for air and other gases. It is an International Standard.

It is published as a double logo International Standard.

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

Draft	Report on voting
59N/44/FDIS	59N/46/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.

In this standard, the following print types are used:

- **terms defined in Clause 3 of IEC 63086-1: bold type**
- **terms defined in Clause 3 of IEC 63086-2-1: bold type.**

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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- reconfirmed,
- withdrawn, or
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# HOUSEHOLD AND SIMILAR ELECTRICAL AIR CLEANING APPLIANCES – METHODS FOR MEASURING THE PERFORMANCE –

## Part 2-1: Particular requirements for determination of particle reduction

### 1 Scope

This part of IEC 63086 specifies test methods for measuring the performance of electrically powered household and similar **air cleaners** intended for the reduction of particulate pollution.

NOTE The limits of measurability for the **CADR** are described in Annex A.

### 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 63086-1:2020, *Household and similar electrical air cleaning appliances – Methods for measuring the performance – Part 1: General requirements*  
IEC 63086-1:2020/AMD1:2023

ISO 12103-1, *Road vehicles – Test dust for filter evaluation – Part 1: Arizona test dust*

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

ISO 5011:2020, *Inlet air cleaning equipment for internal combustion engines and compressors – Performance testing*

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

### 3 Terms, definition and abbreviated terms

#### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63086-1:2020 and the following apply.

ISO and IEC maintain terminology 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>

##### 3.1.1

##### **aerosol**

suspension of fine solid particles or liquid droplets in air or another gas