

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Household and similar electrical air cleaning appliances – Methods for measuring the performance –
Part 1: General requirements**

**Appareils d'épuration d'air électriques domestiques et appareils similaires –
Méthodes de mesure de l'aptitude à la fonction –
Partie 1: Exigences générales**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL AIR CLEANING APPLIANCES –
METHODS FOR MEASURING THE PERFORMANCE****Part 1: General requirements**

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IEC 63086-1 edition 1.1 contains the first edition (2020-04) [documents 59/722/FDIS and 59/725/RVD] and its amendment 1 (2023-07) [documents 59N/25/CDV and 59N/34/RVC].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 63086 has been prepared by IEC technical committee 59: Performance of household and similar electrical appliances.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this standard, the following print types are used:

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

A list of all parts in the IEC 63086 series, published under the general title *Household and similar electrical air cleaning appliances – Methods for measuring the performance* can be found on the IEC website.

The committee has decided that the contents of this document and its amendment 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

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HOUSEHOLD AND SIMILAR ELECTRICAL AIR CLEANING APPLIANCES – METHODS FOR MEASURING THE PERFORMANCE

Part 1: General requirements

1 Scope

This part of IEC 63086 applies to electrically powered household and similar **air cleaners** intended for use on rated single-phase AC input voltage circuits not exceeding 250 V and DC input voltage circuits not exceeding 48 V.

For **combination products**, this document is used to measure the performance of the appliance at reducing pollutants.

This document is not applicable to:

- appliances intended exclusively for industrial purposes;
- appliances intended for use in medical treatment locations, such as surgical suites, laboratories, medical treatment rooms;
- cooking fume extractors (see IEC 61591).

NOTE 1 See Clause 4 for examples of different technologies and placements of household and similar **air cleaners**.

~~NOTE 2 If the test methods in this document are applied to **combination products** (air conditioners, humidifiers, dehumidifiers, heaters, etc.) with air cleaning function, they are only aimed at their air cleaning function when tested.~~

NOTE 3 Battery-operated appliances are within the scope of this document. Dual-supply appliances, either mains-supplied or battery-operated, are regarded as battery-operated appliances when operated in the battery mode.

~~NOTE 4 This document is not applicable to:~~

- ~~• appliances intended exclusively for industrial purposes;~~
- ~~• appliances intended for use in medical treatment locations, such as surgical suites, laboratories, medical treatment rooms, etc.~~
- ~~• household range hoods or cooking fume extractors – see IEC 61591.~~

NOTE 3 A cooking fume extractor and an air cleaner differ significantly in their main use. A cooking fume extractor is designed to capture fumes close to the cooking surface in a kitchen environment. In the case of the cooking fume extractor, the focus is on the direct capture of the cooking fumes (first yield capture rate), whereas in the case of air cleaners, the focus is on general household air pollutant reduction.

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 60704 (all parts), *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise*

IEC 62301:2011, *Household electrical appliances – Measurement of standby power*

3 Terms and definitions

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