

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**A.C. ventilating fans and regulators for household and similar purposes –  
Methods for measuring performance**

**Aérateurs à courant alternatif et régulateurs pour applications domestiques et  
analogues – Méthodes de mesure de l'aptitude à la fonction**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**A.C. VENTILATING FANS AND REGULATORS FOR HOUSEHOLD AND SIMILAR PURPOSES – METHODS FOR MEASURING PERFORMANCE**

## FOREWORD

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International Standard IEC 60665 has been prepared by subcommittee 59L: Small household appliances, of IEC technical committee 59: Performance of household and similar electrical appliances

This second edition cancels and replaces the first edition published in 1980. This edition constitutes a technical revision.

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

- a) the test chambers have been updated;
- b) a test chamber for a type D fan is introduced.

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

CDV	Report on voting
59L/139/CDV	59L/156A/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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- replaced by a revised edition, or
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# A.C. VENTILATING FANS AND REGULATORS FOR HOUSEHOLD AND SIMILAR PURPOSES – METHODS FOR MEASURING PERFORMANCE

## 1 Scope

This document specifies the performance and the corresponding methods of test of AC ventilating fans for household and similar purposes intended for air forcing and exhaust, driven by single-phase AC motors having a power consumption of less than 125 W (including any associated regulators) for use on single-phase AC circuits not exceeding 250 V.

This document applies to ventilating fans such as partition fans for walls and window and duct fans.

NOTE This document does not apply to:

- the safety of electric fans for household and similar purposes (IEC 60335-2-80);
- the performance of comfort fans (IEC 60879);
- range hoods and other cooking fume extractors (IEC 61591);
- airborne acoustic noise for fans (IEC 60704-2-7);
- electromagnetic compatibility of fans (CISPR 14-1 and CISPR 14-2, IEC 61000-3-2, IEC 61000-3-3).

## 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.

ISO 5801:2007, *Industrial fans – Performance testing using standardized airways*

## 3 Terms and definitions

For the purpose of this standard, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

NOTE When the terms “voltage” and “current” are used, they imply root mean square (RMS) values unless otherwise specified.

### 3.1

fan blades connected to and driven by an electric motor, including its associated speed regulator, if any

### 3.2

#### **ventilating fan**

fan intended to displace air either from one side of a partition to the other, or within a duct installed either on the fan inlet or on the fan outlet, or both