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ISO 13348

**Fans — Tolerances, methods of
conversion and technical data
presentation**

*Ventilateurs — Tolérances, méthodes de conversion et
présentation des données techniques*

**Third edition
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This document was prepared by Technical Committee ISO/TC 117, *Fans*.

This third edition cancels and replaces the second edition (ISO 13348:2007), which has been technically revised.

The main changes are as follows:

- terms have been revised;
- symbols and units in [Clause 4](#) have been updated;
- [Clauses 6](#) and [7](#) have been revised;
- additional information provided in [Annex D](#).

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This document aims to clarify technical aspects of contracts where fan performance is concerned, and the accuracy and consistency of performance details published in technical catalogues.

In this document, a distinction is drawn between specially designed fans to suit a specific purpose, to meet a contract specification, and series-produced fans where the performance data is contained in a catalogue.

For purpose-designed fans, the methods of calculating performance data under contract conditions, from performance data obtained under test conditions, are described in [Clause 5](#) for both air and sound data. Four tolerance grades are given, each appropriate to a particular type of fan and/or its application. These procedures have been found satisfactory; however, the supplier and user can agree to adopt alternative methods.

For series-produced non-certified fans, the associated technical data will be contained in a catalogue (electronic and/or printed form). In this case, the recommended method of applying tolerances is as described in [Clause 5](#).

For series-produced fans in certified ratings programmes, the associated technical data will be contained in a catalogue (electronic and/or printed form). In this case, the recommended method of applying tolerances is as described in [Clause 6](#) (based on AMCA (Air Movement and Control Association) International, Inc. certified reference program rules^{[16],[17],[18]}).