Fans - Vocabulary and definitions of categories - Part 2: Categories (ISO 13349-2:2022)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 13349-2:2022 sisaldab Euroopa standardi EN ISO 13349-2:2022 ingliskeelset teksti.

This Estonian standard EVS-EN ISO 13349-2:2022 consists of the English text of the European standard EN ISO 13349-2:2022.

Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.

This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.

Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 19.10.2022.

Date of Availability of the European standard is 19.10.2022.

Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.

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ICS 01.040.23, 23.120

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EUROPEAN STANDARD

NORME EUROPÉENNE

EN ISO 13349-2

EUROPÄISCHE NORM

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Supersedes EN ISO 13349:2010

English Version

Fans - Vocabulary and definitions of categories - Part 2: Categories (ISO 13349-2:2022)

Ventilateurs - Vocabulaire et définitions des catégories - Partie 2: Catégories (ISO 13349-2:2022)

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN ISO 13349-2:2022) has been prepared by Technical Committee ISO/TC 117 "Fans" in collaboration with Technical Committee CEN/TC 156 "Ventilation for buildings" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2023, and conflicting national standards shall be withdrawn at the latest by April 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 13349:2010.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 13349-2:2022 has been approved by CEN as EN ISO 13349-2:2022 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 117, Fans, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 156, Ventilation for buildings, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This document, along with ISO 13349-1, cancels and replaces ISO 13349:2010, which has been technically revised.

The main changes are as follows:

- document split into two parts: Vocabulary and Categories;
- Clause 3 revised to refer to ISO 13349-1;
- positions of the illustrations modified;
- editorial errors corrected.

A list of all parts in the ISO 13349 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document reflects the importance of a standardized approach to the terminology of fans.

The need for an International Standard has been evident for some considerable time. To take just one example, the coding of driving arrangements differs from manufacturer to manufacturer. What one currently calls arrangement no. 1 can be known by another as arrangement no. 3. The confusion for the customer is only too apparent. For similar reasons, it is essential to use standardized nomenclature to identify particular parts of a fan.

Wherever possible, in the interests of international comprehension, this document is in agreement with similar documents produced by Eurovent, AMCA, VDMA (Germany), AFNOR (France) and UNI (Italy). They have, however, been built on where the need for amplification was apparent.

Use of this document will lead to greater understanding among all parts of the air-moving industry. This document is intended for use by manufacturers, consultants and contractors. 'is a preview senerated by the

Fans — Vocabulary and definitions of categories —

Part 2:

Categories

1 Scope

This document defines categories in the field of fans used for all purposes.

It is not applicable to electrical safety.

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 5167-1, Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements

ISO 5801, Fans — Performance testing using standardized airways

ISO 13349-1, Fans — Vocabulary and definitions of categories —Part 1:Fans—Vocabulary

ISO 13351, Fans — Dimensions

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5167-1, ISO 5801 and ISO 13349-1 apply.

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

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

4 Symbols and units

4.1 Symbols

The following symbols and primary units for the parameters listed apply.

Parameter	Symbol	Unit
Volume flow rate	$q_V^{}$	m ³ /s
Fan pressure	$p_{ m F}$	Pa
Power	P	W
Torque	τ	Nm
NOTE 1 For sound units, see ISO 13347-1.		

NOTE 2 For efficiency units, see ISO 5801.