

Tööstuslikud ventilaatorid. Terminoloogia

Industrial fans - Vocabulary and definitions of categories

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 13349:2008 sisaldab Euroopa standardi EN ISO 13349:2008 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 15.12.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 22.10.2008.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 13349:2008 consists of the English text of the European standard EN ISO 13349:2008.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 15.12.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 22.10.2008.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
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English Version

Industrial fans - Vocabulary and definitions of categories (ISO
13349:1999)

Ventilateurs industriels - Vocabulaire et définitions des
catégories (ISO 13349:1999)

This European Standard was approved by CEN on 2 October 2008.

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Foreword

The text of ISO 13349:1999 has been prepared by Technical Committee ISO/TC 117 "Industrial fans" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 13349:2008 by 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of an identical text or by endorsement, at the latest by April 2009, and conflicting national standards shall be withdrawn at the latest by April 2009.

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Endorsement notice

The text of ISO 13349:1999 has been approved by CEN as a EN ISO 13349:2008 without any modification.

Introduction

This International Standard 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 1 may be known by another as Arrangement 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 International Standard 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 International Standard will lead to greater understanding among all parts of the air-moving industry. It is hoped that manufacturers, consultants, contractors and users will adopt and refer to this International Standard as soon as possible.

Industrial fans — Vocabulary and definitions of categories

1 Scope

This International Standard provides a vocabulary and defines categories for general purpose industrial fans and their component parts. It is applicable to any fan used for industrial purposes, including the ventilation of buildings and mines, but excluding ceiling, pedestal and similar circulation types of fans such as those commonly used for non-industrial purposes.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5801:1997, *Industrial fans — Performance testing using standardized airways*.

ISO 5802:—¹⁾, *Industrial fans — Performance testing in situ*.

ISO 13350:1999, *Industrial fans — Performance testing of jet fans*.

ISO 13351:1996, *Industrial fans — Dimensions*.

3 Definitions

For the purposes of this International Standard, the following definitions apply.

3.1

fan

rotary-bladed machine which receives mechanical energy and utilizes it by means of one or more impellers fitted with blades to maintain a continuous flow of air or other gas passing through it and whose work per unit mass does not normally exceed 25 kJ/kg

NOTE 1 The term "fan" is taken to mean the fan as supplied without any addition to the inlet or outlet, except where such addition is specified.

NOTE 2 Fans are defined according to their installation category, function, fluid path and operating conditions.

NOTE 3 If the work per unit mass exceeds a value of 25 kJ/kg, the machine is termed a turbocompressor. This means that, for a mean stagnation density through the fan of $1,2 \text{ kg/m}^3$, the fan pressure will not exceed $1,2 \times 25 \text{ kJ/kg}$, i.e. 30 kPa, and the pressure ratio will not exceed 1,30 since atmospheric pressure is approximately 100 kPa.

¹⁾ To be published.