

## **Fume cupboards - Part 3: Type test methods**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14175-3:2004 sisaldab Euroopa standardi EN 14175-3:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.05.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14175-3:2004 consists of the English text of the European standard EN 14175-3:2003.</p> <p>This document is endorsed on 18.05.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This part of the European Standard EN 14175 specifies type test methods for the assessment of safety and performance of fume cupboards. Relevant requirements are specified in Part 2 of this European Standard. For terms and their definitions EN 14175-1 applies. For safety and performance requirements of fume cupboards EN 14175-2 applies.</p>	<p><b>Scope:</b></p> <p>This part of the European Standard EN 14175 specifies type test methods for the assessment of safety and performance of fume cupboards. Relevant requirements are specified in Part 2 of this European Standard. For terms and their definitions EN 14175-1 applies. For safety and performance requirements of fume cupboards EN 14175-2 applies.</p>
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**Võtmesõnad:** laboratory equipment, occupational s, pipelines, qualification tests, safety r, sample surveys, specification (approval), specifications, surveillance (approval), table hoods, testing, type tests, valves, ventilation, ventilation equipment, ventilators, work safety

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English version

## Fume cupboards - Part 3: Type test methods

Sorbonnes - Parite 3: Méthodes d'essai de type

Abzüge - Teil 3: Baumusterprüfverfahren

This European Standard was approved by CEN on 1 October 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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## Contents

	page
Foreword .....	3
Introduction .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
3.1 plane of sash .....	5
3.2 inner measurement plane .....	5
3.3 containment factor ( $C_F$ ) .....	6
4 Test room and general test conditions .....	6
4.1 Dimensions and construction .....	6
4.2 Test room conditions .....	6
4.3 Fume cupboard installation .....	6
4.4 Test conditions .....	6
5 Air flow tests .....	7
5.1 Extract volume flow rate .....	7
5.2 Face velocity .....	7
5.3 Containment .....	8
5.4 Robustness of containment .....	14
5.5 Air exchange efficiency .....	15
5.6 Pressure drop .....	17
6 Sash tests .....	17
6.1 Sash suspension test .....	17
6.2 Sash displacement test .....	18
6.3 Protection against splashes .....	18
6.4 Sash stop and alarm test .....	18
7 Air flow indicator tests .....	18
8 Construction and materials tests .....	18
9 Illuminance test .....	18
10 Test report .....	18
Annex A (informative) Sound tests .....	20
Bibliography .....	21

## Foreword

This document (EN 14175-3:2003) has been prepared by Technical Committee CEN/TC 332 "Laboratory equipment", the secretariat of which is held by DIN.

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 June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

Annex A is informative.

This European Standard EN 14175 consists of the following parts, under the general title *Fume cupboards*;

- Part 1: Vocabulary
- Part 2: Safety and performance requirements
- Part 3: Type test methods
- Part 4: On-site test methods
- Part 5: Recommendations for installation and maintenance (in preparation)
- Part 6: Variable air volume fume cupboards (in preparation)

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

The objective of this European Standard is to specify type test methods relevant to the assessment of the safety and performance of fume cupboards.

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## 1 Scope

This part of the European Standard EN 14175 specifies type test methods for the assessment of safety and performance of fume cupboards. Relevant requirements are specified in Part 2 of this European Standard.

For terms and their definitions EN 14175-1 applies. For safety and performance requirements of fume cupboards EN 14175-2 applies.

NOTE For on-site test methods of fume cupboards, Part 4 of this European Standard is in preparation.

For the testing of microbiological safety cabinets EN 12469 applies.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 12665, *Light and lighting — Basic terms and criteria for specifying lighting requirements*.

EN 13150:2001, *Workbenches for laboratories — Dimensions, safety requirements and test methods*.

EN 14175-1:2003, *Fume cupboards — Part 1: Vocabulary*.

EN 14175-2:2003, *Fume cupboards — Part 2: Safety and performance requirements*.

EN 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 5167-1:2003)*.

EN ISO 12569, *Thermal insulation in buildings — Determination of air change in buildings — Tracer gas dilution method (ISO 12569:2000)*.

## 3 Terms and definitions

For the purposes of this European Standard, the definitions given in EN 14175-1:2003 and the following apply.

### 3.1

#### plane of sash

plane in the middle between the innermost and the outermost screen surfaces of that part of the sash forming the upper boundary of the test sash opening.

NOTE This definition replaces the definition given in EN 14175-1:2003, 5.4.

### 3.2

#### inner measurement plane

plane of sash at the type test opening, except where the plane of sash does not meet the work surface of the fume cupboard. In the latter case, it is usually a non-vertical plane bounded;

- at the top by the lowest point of the upper edge of the type test opening in the plane of the sash;
- at the bottom by the uppermost point of the lower edge of the opening closest to the plane of sash;