

**Fume cupboards - Part 7: Fume cupboards for high heat and acidic load**

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## EESTI STANDARDI EESSÕNA

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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.
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English Version

## Fume cupboards - Part 7: Fume cupboards for high heat and acidic load

Sorbonnes - Partie 7: Sorbonnes pour charge thermique et acide élevée

Abzüge - Teil 7: Abzüge für hohe thermische und Säurelasten (Abrauchabzüge)

This European Standard was approved by CEN on 27 April 2012.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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## Foreword

This document (EN 14175-7:2012) 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of an identical text or by endorsement, at the latest by November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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

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 6: Variable air volume fume cupboards*
- *Part 7: Fume cupboards for high heat and acidic load*

Part 5 (*Recommendations for installation and maintenance*) has been published as Technical Specification CEN/TS 14175-5.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## Introduction

The objective of this document is to consider fume cupboards classified for special applications involving high heat load and/or strong acidic load requiring additional construction, safety, operating and maintenance features to those identified in EN 14175-1 to EN 14175-6.

The use of these special application fume cupboards instead of general purpose fume cupboards is usually the result of a risk assessment.

## 1 Scope

This European Standard applies for

- fume cupboards for high heat load;
- fume cupboards for high heat load in combination with acidic digestions;
- fume cupboards for handling of perchloric acid;
- fume cupboards for handling of hydrofluoric acid.

This European Standard applies in conjunction with EN 14175-1 to EN 14175-4 and, where appropriate, to EN 14175-6 and specifies supplementary information relevant to vocabulary, safety and performance requirements, type test methods, on-site test methods and marking of the listed special purpose fume cupboards.

NOTE EN 14175-6 applies for variable air volume fume cupboards. Experience shows that fume cupboards for high heat load offer much safer working conditions when operated with fixed air volume flow.

This European Standard does not apply for microbiological safety cabinets, recirculatory filtration fume cupboards and fume cupboards for carrying out work on radioactive materials.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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

EN 14175-3, *Fume cupboards — Part 3: Type test methods*

EN 14175-4, *Fume cupboards — Part 4: On-site test methods*

EN 14175-6, *Fume cupboards — Part 6: Variable air volume fume cupboards*