

Fume cupboards —

Part 1: Vocabulary

ICS 71.040.10; 91.140.30

National foreword

This British Standard is the UK implementation of EN 14175-1:2003. Together with BS EN 14175-2:2003, BS EN 14175-3:2003, BS EN 14175-4:2004, DD CEN/TS 14175-5:2006, BS EN 14175-6:2006, BS EN 14175-7:2012, it supersedes BS 7258-1:1994, BS 7258-2:1994, BS 7258-3:1994 and BS 7258-4:1994 which are withdrawn.

The UK committee advises that prior to purchasing a fume cupboard, a risk assessment should be performed to assess the risks associated with the substances that are to be manipulated. This would ensure that the fume cupboard is suitable for its intended purpose and that current exposure limits for toxic substances are not exceeded. It is suggested, therefore, that users may need to draw up a specification appropriate to their particular requirements, within the overall permissible limits of this standard and the information on installation included in the National Annex. For users with little experience of purchasing fume cupboards, it may be helpful for trade associations, employers' bodies or other organizations associated with a particular activity to give guidance on a suitable specification. An example would be Building Bulletin 88 from the Architects & Building Branch of the Department for Education and Employment, which is currently under revision and to be published in future as G9a Fume Cupboards in Schools by CLEAPSS.

The UK participation in its preparation was entrusted by Technical Committee LBI/1, Laboratory safety and equipment to subcommittee LBI/1/1, Laboratory furniture and fittings.

A list of organizations represented on LBI/1/1 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
17039	30 April 2007	Addition of National Annex NA and revision of supersession details
	31 January 2014	Correction to supersession details and national foreword

English version

Fume cupboards - Part 1: Vocabulary

Sorbonnes - Partie 1: Vocabulaire

Abzüge - Teil 1: Begriffe

This European Standard was approved by CEN on 3 March 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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 14175-1:2003) 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 November 2003, and conflicting national standards shall be withdrawn at the latest by November 2003.

This part of EN 14175 is applicable from the date of publication (DOP). For placing on the market of fume cupboards at DOP complying with a national standard in Europe, this part of EN 14175 or the national standard may be applied until DOP + 6 months.

This part of EN 14175 is not applicable to fume cupboards which have been installed in the work place before DOP + 6 months if not otherwise declared by the manufacturer.

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)

Attention is drawn to the addition and modification of terms given in prEN 14175-3:2003.

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 part 1 of EN 14175 is to give definitions for terms relevant to fume cupboards for general use.

The terms and their definitions offer assistance in the construction of fume cupboards, in the drafting of user information as well as in the testing of fume cupboards. They are intended to contribute towards mutual understanding amongst manufacturers, laboratory designers, users and health and safety authorities.

Terms which occur the first time in the definition of another term of this European standard are printed in bold type.

1 Scope

This part 1 of EN 14175 provides terms and definitions for fume cupboards (see 3.1). Corresponding terms in eight European languages are given in the normative annex A.

For safety and performance requirements of fume cupboards EN 14175-2 applies.

For type testing of fume cupboards prEN 14175-3 applies.

For microbiological safety cabinets EN 12469 applies.

This part of EN 14175 does not address recirculatory filtration fume cupboards or devices used as animal accommodation.

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).

3 Types of fume cupboards

3.1 fume cupboards

protective device to be ventilated by an induced flow of air through an adjustable working opening

- with an enclosure designed to limit the spread of airborne contaminants to operators and other personnel outside the device,
- offering a degree of mechanical protection, and
- providing for the controlled release of airborne contaminants

NOTE A fume cupboard is a ventilated enclosure complying with the requirements specified in EN 14175-2.