



National Standards Authority of Ireland

STANDARD

I.S. EN 14175-3:2004

ICS 71.040.10

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Fax: (01) 807 3838

FUME CUPBOARDS - PART 3: TYPE TEST

METHODS

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
May 13, 2004*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2004

Price Code H

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 14175-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2003

ICS 71.040.10

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.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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.

EN 14175-3:2003 (E)

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.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-