



National Standards Authority of Ireland

IRISH STANDARD

I.S. CEN/TS 14175-5:2006

ICS 71.040.10

**FUME CUPBOARDS - PART 5:  
RECOMMENDATIONS FOR INSTALLATION  
AND MAINTENANCE**

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**CEN/TS 14175-5**

August 2006

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English Version

**Fume cupboards - Part 5: Recommendations for installation and maintenance**

Sorbonnes - Partie 5 : Recommandations pour installation  
et entretien

Abzüge - Teil 5: Empfehlungen für Installation und Wartung

This Technical Specification (CEN/TS) was approved by CEN on 20 May 2006 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>3</b>
<b>1</b>	<b>Scope</b> .....	<b>4</b>
<b>2</b>	<b>Normative references</b> .....	<b>4</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>4</b>
<b>4</b>	<b>Installation of fume cupboards</b> .....	<b>4</b>
<b>4.1</b>	<b>General</b> .....	<b>4</b>
<b>4.2</b>	<b>Space needs and dimensions</b> .....	<b>4</b>
<b>4.3</b>	<b>Fume cupboards and escape routes</b> .....	<b>7</b>
<b>4.4</b>	<b>Fume extract and laboratory make-up air systems</b> .....	<b>7</b>
<b>4.5</b>	<b>Fume cupboards temporarily out of use</b> .....	<b>7</b>
<b>5</b>	<b>Maintenance of fume cupboards</b> .....	<b>7</b>
<b>5.1</b>	<b>General</b> .....	<b>7</b>
<b>5.2</b>	<b>Routine testing</b> .....	<b>8</b>
<b>Bibliography</b> .....		<b>9</b>

## **Foreword**

This Technical Specification (CEN/TS 14175-5:2006) has been prepared by Technical Committee CEN/TC 332 "Laboratory equipment", the secretariat of which is held by DIN.

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.

The 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 6: Variable air volume fume cupboards

Due to its informative contents, Part 5 of EN 14175 is published as a Technical Specification (CEN/TS).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, 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 and the United Kingdom.

## **CEN/TS 14175-5:2006 (E)**

### **1 Scope**

This Technical Specification specifies a selection of recommendations for the installation and maintenance of fume cupboards in accordance with EN 14175-2 and EN 14175-6. The maintenance recommendations can be applicable to other fume cupboards as well.

### **2 Normative references**

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

EN 13779, *Ventilation for non-residential buildings — Performance requirements for ventilation and room-conditioning systems*

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

EN 14175-3:2003, *Fume cupboards — Part 3: Type test methods*

EN 14175-4:2004, *Fume cupboards — Part 4: On-site test methods*

EN 14175-6:2006, *Fume cupboards — Part 6: Variable air volume fume cupboards*

### **3 Terms and definitions**

For the purposes of this Technical Specification, the terms and definitions given in EN 14175-1:2003, EN 14175-3:2003 and EN 14175-6:2006 apply.

### **4 Installation of fume cupboards**

#### **4.1 General**

This clause gives recommendations for the installation of fume cupboards, including siting and connection to and interfacing with building ventilation and services systems.

NOTE 1 See EN 14056:2003, Clauses 8, 9 and 11, particularly regarding services accessibility, services input and services outlets.

NOTE 2 Attention is drawn to national regulations, among others in respect of liability during installation of fume cupboards within laboratories.

#### **4.2 Space needs and dimensions**

**4.2.1** Except where national regulations indicate otherwise, the following spaces should be allowed between fume cupboards and building elements or other equipment.

All dimensions given are for guidance. Alternatives may be appropriate, although their effectiveness should be objectively verified, preferably by means of test methods described in EN 14175-4 and, for VAV fume cupboards, in EN 14175-6.

**4.2.2** The distance from the sash to any part of the laboratory frequently used by other personnel in moving from one part of the laboratory or the building to another should be at least 1 m (see Figure 1).

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