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Fume cupboards - Part 5: Recommendations for installation and maintenance

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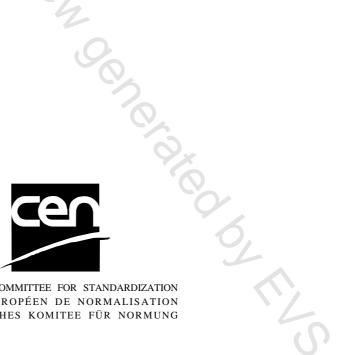
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Contents

Foreword	
1	Scope
2	Normative references4
3	Terms and definitions4
4 4.1 4.2 4.3 4.4 4.5	Installation of fume cupboards 4 General 4 Space needs and dimensions 4 Fume cupboards and escape routes 7 Fume extract and laboratory make-up air systems 7 Fume cupboards temporarily out of use 7
5 5.1 5.2	Maintenance of fume cupboards
Bibliog	jraphy
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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).

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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).