ICS 71.040.10 SLOVENSKÁ TECHNICKÁ NORMA November 2019

STN	**Odsávacie boxy** **Časť 3: Metódy skúšania typu**	**STN** **EN 14175-3** 83 3820

Fume cupboards - Part 3: Type test methods

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/19

Obsahuje: EN 14175-3:2019

Oznámením tejto normy sa ruší
STN EN 14175-3 (83 3820) z mája 2004

129629

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 14175-3

May 2019

ICS 71.040.10 Supersedes EN 14175-3:2003

English Version

Fume cupboards - Part 3: Type test methods

Sorbonnes - Partie 3 : Méthodes d'essai de type

Abzüge - Teil 3: Baumusterprüfverfahren

This European Standard was approved by CEN on 15 March 2019.

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

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Ref. No. EN 14175-3:2019 E

Contents

Page

European foreword

This document (EN 14175-3:2019) 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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

This document supersedes EN 14175-3:2003.

In comparison with the previous edition, the following technical modification have been made:

— introduction was deleted;

— scope clarified and referene to EN 14175-4 and EN 14175-6 was added;

— inclusion of new terms 3.4 and 3.5 with defintions;

— information testing on walk-in fume cupboards clarified;

— limitation of usage of SF_6 as trace gas according to national legislation;

— revision of data analysis and result in 5.3.6 and 5.4.5;

— inclusion of Annex B "A-deviations".

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* (Technical Specification)

— *Part 6: Variable air volume fume cupboards*

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

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies type test methods for the assessment of safety and performance of fume cupboards connected to an exhaust air system. Relevant requirements are specified in EN 14175-2.

For terms and their definitions, EN 14175-1 applies. For safety and performance requirements of fume cupboards, EN 14175-2 applies. For on-site test methods of fume cupboards, EN 14175-4 applies. For the type testing and on-site testing of variable air volume (VAV) fume cupboards, EN 14175-6 applies in addition to this standard. For fume cupboards for high heat and acidic load, EN 14175-7 applies.

For the testing of recirculation filtration fume cupboards, EN 17242:—[1] applies.

For the testing of microbiological safety cabinets, EN 12469 applies.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 12665, *Light and lighting — Basic terms and criteria for specifying lighting requirements*

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

EN 14175-2:2003, *Fume cupboards — Part 2: Safety and performance requirements*

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

EN ISO 5167-1, *Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full — Part 1: General principles and requirements (ISO 5167-1)*

EN ISO 12569, *Thermal performance of buildings and materials — Determination of specific airflow rate in buildings — Tracer gas dilution method (ISO 12569)*

[1] Under preparation. Stage at the time of publication: prEN 17242:2018.