SLOVENSKI STANDARD
oSIST prEN 14175-9:2026

01-julij-2026

Digestoriji - 9. del: Digestoriji, opremljeni s filtriranim notranjim kroženjem zraka

Fume cupboards - Part 9: Fume cupboards, ducted with filtered internal recirculation

Abzüge - Teil 9: Abzüge, kanalisiert mit interner gefilterter Umwälzung

Sorbonnes - Partie 9 : Sorbonnes à recirculation partielle de l'air

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Fume cupboards - Part 9: Fume cupboards, ducted with filtered internal recirculation

EN 14175-9: Sorbonnes - Partie 9: Sorbonnes à filtres raccordées

EN 14175-9: Laborabzüge - Teil 9: Angeschlossene Filterlaborabzüge

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European foreword

This document (prEN 14175-9:2026) has been prepared by Technical Committee CEN/TC 332 “Laboratory equipment”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

Introduction

Ducted Filtration Fume Cupboards (DFFC) are especially adapted devices intended to protect their users and/or the external environment by means of:

— The ability to contain potentially hazardous materials.

— The ability to remove potentially hazardous materials from air exhausted from within the fume cupboard housing by means of filtration before the air is discharged to the external environment.

The protection of operators is the main purpose of fume cupboards. As health risks are rising from more and more potent hazardous products, additional barriers may be necessary. Regarding the installation sites of cupboards there are growing efforts to improve environmental protection by additional filtration of contaminated air directly at the source. As dilution is not a solution to pollution, the intention is to minimise the discharge of contaminants into the atmosphere as well as to protect the exhaust air system, to make the maintenance safer of this, and to prevent burden to the public environment. Use of filtration also reduces the potential for re-entrainment of contaminated exhaust air through the air intakes. With the possibility of partial filtered air reuse such ducted fume cupboards may reduce the volume of exhaust air discharged. So, they may serve as an alternative solution, where building make up air ventilation is at capacity limit, contributing to climate protection and energy saving.

The types of potentially hazardous materials to be removed include particulates, gases, vapours, aerosols, and combinations of these. This objective is driven by aspects of performance based on health risks, nuisance effects, environmental impacts, or a combination of these. The guidance for filter use is based upon an operator risk assessment considering particulate or chemical hazards and work processes.

1 Scope

This document specifies characteristics concerning the design and performance requirements together with type testing and on-site testing procedures especially for ducted filtration fume cupboards not described in the other parts of EN 14175. Filter in DFFCs can be specific filters or a combination of filters dependent on the characteristics of the contaminants to be removed.

This document is related to and will refer to other parts of EN 14175 regarding definitions, technologies, testing methodologies, design factors and functional aspects.

This document covers the specific layout version of ducted fume cupboards with integral filtration. These devices called Ducted Filtration Fume Cupboards (DFFC) may be designed to partially reuse filtered air for internal dilution.

Fume cupboards fitted with filters which only act on the extracted air stream are not covered by this part.

Their filter requirements, description and testing could be taken from this standard, in particular in Annex A.

Recirculatory Filtration Fume Cabinets which return the filtered exhaust air back into the surrounding room are not part of this standard but described in the EN 17242.

The requirements for fume cupboards and filters for radioactive work are described in detail in EN 14175-8.

DFFCs are not foreseen for work with pathogens. Appropriate microbiological cabinets are described in EN 12469.

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 14175-1, *Fume cupboards – Part 1: Vocabulary*

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

EN 14175-3:2019, *Fume cupboards - Part 3: Type test methods*

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

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

EN 14175-7, *Fume cupboards – Part 7: Fume cupboards for high heat and acidic load*

EN 14175-8, *Fume cupboard – Part 8: Fume cupboards for work with radioactive materials*