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Responsible committee: LBI/1/1 Laboratory furniture and fittings

Interested committees:

Title: Draft BS EN 12469-5 BS Biological safety cabinets. Part 5: Installation, commissioning and routine testing.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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Full document details: 24/30486658 DC

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Biological safety cabinets - Part 5: Installation, commissioning and routine testing

Postes de sécurité biologique - Partie 5: Installation,
mise en service et essais de routine

Biologische Sicherheitswerkbänke - Teil 5: Aufstellung,
Inbetriebnahme und Wartung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 332.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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European foreword

This document (prEN 12469-5:2024) 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.

This document, together with prEN 12469-1:2024, prEN 12469-2:2024, prEN 12469-3:202X and prEN 12469-4:202X, will partially supersede EN 12469:2000.

prEN 12469-5:2024 includes the following significant technical changes with respect to EN 12469:2000:

- the structure has been changed to emphasize different classes of biological safety cabinets (BSC);
- the text of the entire document has been revised and references have been updated.

prEN 12469:2024 consists of the following parts, under the general title *Biological safety cabinets*:

- Part 1: Classes, terminology and basic requirements
- Part 2: BSC class II
- Part 3: BSC class III¹
- Part 4: BSC class I²
- Part 5: Installation, commissioning and routine testing

¹ Under preparation.

² Under preparation.

Introduction

Biological safety cabinets (BSC) are designed to reduce the risk to the operator when using biological materials. Dependent on type, they can protect the operator, the product, and the environment from biological aerosols.

BSC class I and class II are ventilated enclosures with an open front aperture.

A BSC class III is a fully enclosed workspace with gloves attached to the front port normally with an additional pass-through box attached.

A BSC class I provides operator and environment protection.

A BSC class II provides operator, product, and environment protection. In addition, it offers cross-contamination protection.

A BSC class III provides operator, environment and product protection. It is normally used in high level containment facilities for the highest risk group agents.

The type of BSC required is usually based on risk group, risk assessment and application.

This document describes the design and testing of these BSC for use in laboratories handling biological agents.

This document is a product standard. Occupational health and safety assessments methods are not included.