

Microbiological safety cabinets —

**Part 2: Recommendations for
information to be exchanged between
purchaser, vendor and installer and
recommendations for installation**

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Health Care Standards Policy Committee (HCC/-) to Technical Committee HCC/28, upon which the following bodies were represented:

- Association of the British Pharmaceutical Industry
- Association of Clinical Pathologists
- Association of Medical Microbiologists
- British Health and Safety Society
- British Laboratory Ware Association
- British Occupational Hygiene Society
- Chartered Institution of Building Services Engineers
- Department of Health
- Guild of Hospital Pharmacists
- Health and Safety Executive
- Institute of Animal Health
- Institute of Biology
- Institute of Hospital Engineering
- Institute of Medical Laboratory Sciences
- Institution of Mechanical Engineers
- Manufacturing Science Finance
- Medical Research Council
- Ministry of Agriculture, Fisheries and Food
- Public Health Laboratory Service
- Royal College of Pathologists
- Coopted members

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Foreword

This Part of BS 5726 was prepared under the direction of the Health Care Standards Policy Committee. Together with Parts 1, 3 and 4 it supersedes BS 5726:1979, which is withdrawn.

Microbiological safety cabinets are also known as biological safety cabinets.

The recommendations given in this Part of BS 5726 apply to contracts for the supply and installation of microbiological safety cabinets which comply with Part 1 of this standard, and it is strongly recommended that this advice is followed.

The Parts of this standard are as follows:

- *Part 1: Specification for design, construction and performance prior to installation.* This Part is aimed primarily at manufacturers;
- *Part 2: Recommendations for information to be exchanged between purchaser, vendor and installer and recommendations for installation.* This Part is aimed primarily at installers;
- *Part 3: Specification for performance after installation.* This Part is aimed primarily at those commissioning the cabinets;
- *Part 4: Recommendations for selection, use and maintenance.* This Part replaces the notes for users given in appendix G of the previous edition.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This Part of BS 5726 gives recommendations for the minimum information to be exchanged between the parties to contracts for the supply and/or installation of microbiological safety cabinets as specified in BS 5726-1. It also gives recommendations for installation including siting and provision of extraction ductwork systems.

Note The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this Part of BS 5726, the definitions given in BS 5726-1 apply.

3 Exchange of information

3.1 General

It is strongly recommended that for safety cabinets complying with BS 5726-1, the information given in 3.2 to 3.6 be exchanged between purchaser, vendor and installer.

3.2 Information to be supplied by the purchaser to the vendor

The following information should be supplied by the purchaser to the vendor:

- a) any specific requirements which are evident from consideration by the purchaser of the guidance given in Part 4 of BS 5726;
- b) cabinet size and/or vendor's reference number;
- c) services to be fitted;
- d) dimensions available for access to the building.

3.3 Information to be supplied by the purchaser to the installer.

The following information should be supplied by the purchaser to the installer.

NOTE 1 The installer may be the same party as the vendor.

- a) The following details of the siting of the safety cabinet(s).
 - 1) Details of the building in which the safety cabinet is to be installed which may adversely affect the performance of the cabinet, the location of the laboratory and the intended siting of the safety cabinet(s) within the laboratory.
 - 2) The locations of doors, windows, fume cupboards, other safety cabinets, other laboratory furniture, ventilation grills, diffusers, or other air moving equipment.
 - 3) The absence, at the time of the survey, of any features listed in (2), which are planned but not installed.

NOTE 2 A site survey may be appropriate.

b) General details of the intended method of supplying ventilation make-up air and of the existing room ventilation.

c) The environmental requirements of the laboratory including the following.

- 1) Overall noise levels, in particular if more than one cabinet is required either in the same room or other rooms in the same building.
- 2) Effects of any other cabinets/extraction units, air conditioning and ventilation systems that may contribute to adverse air movements.
- 3) Room air volume flow rate and any pressure difference with respect to the outside atmosphere.

d) The accommodation spaces, routes available and any specific design requirements for the safety cabinet extraction system.

e) The locations and details of any existing mechanical, electrical or other services to be utilized in connection with the complete safety cabinet installation.

f) The following details of the safety cabinet(s).

- 1) Whether a facility to vary the set extraction volume flow rate is required and, if so, the range that is required.
- 2) Whether the safety cabinet extraction system is to be for continuous or intermittent use.
- 3) The commissioning tests to be undertaken by the installers. (See BS 5726-3.)

3.4 Information to be supplied by the vendor to the purchaser

The following information should be supplied by the vendor to the purchaser.

- a) Drawings showing the overall external dimensions of the safety cabinet [see also item i)].
- b) An identification of all materials of construction used within the working area.
- c) The air extraction volume flow rates, corresponding face velocities and pressure drops across the safety cabinet with clean filters.
- d) The safety cabinet type and serial number.
- e) All the information reported on successful completion of the test procedures as specified in BS 5726-1.
- f) Operating and maintenance instructions for all the equipment provided by the vendor, including the pressure loss characteristics of the safety cabinet.
- g) Any specific limitations on use.