

Medical electrical equipment —

Part 2: Particular requirements for safety —

Section 2.13 Specification for anaesthetic machines

(Implementation of CENELEC HD 395.2.13 S1)

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/44, upon which the following bodies were represented:

- Association of Anaesthetists of Great Britain and Ireland
- Association of British Health Care Industries
- Association of Veterinary Anaesthetists of Great Britain and Ireland
- British Anaesthetic and Respiratory Equipment Manufacturers' Association
- Department of Health
- Medical Sterile Products Association
- National Health Service Regional Engineers' Association

This British Standard, having been prepared under the direction of the Health Care Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 July 1990

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared under the direction of the Health Care Standards Policy Committee and is identical with IEC Publication 601-2-13:1989 “*Medical electrical equipment*”—*Part 2 “Particular requirements for the safety of anaesthetic machines”*, prepared by Technical Committee 62, Electrical equipment in medical practice, of the International Electrotechnical Commission (IEC). This Particular Standard amends and supplements BS 5724-1:1979, hereinafter called the General Standard. This Particular Standard also implements Harmonization Document HD 395.2.13 S1 which was published by the European Committee for Electrotechnical Standardization (CENELEC) and approved by the CENELEC Technical Board on 6 December 1988. As stated in 1.3 of the General Standard, the requirements of this Particular Standard take precedence over those of the General Standard. There are no CENELEC modifications in HD 395.2.13 S1.

As in the General Standard, the requirements are followed by compliance tests. The numbers of the sections and clauses in this standard refer to the related sections and clauses in the General Standard. Clauses, subclauses or figures that are additional to those of the General Standard are numbered starting from 101; additional appendices are lettered AA, BB, etc. and additional items aa), bb), etc. The changes from the text of the General Standard are specified by the use of the following words.

- “Replacement” means that the clause, subclause or specified paragraph of the General Standard is replaced by the text of this standard.
- “Amendment” means that the clause, subclause or specified paragraph of the General Standard is amended as indicated by the text of this standard.
- “Addition” means that the text of this standard is additional to the requirements of the General Standard.

A rationale for the most important requirements is given in Appendix AA. It is considered that a knowledge of the reasons for the requirements will not only facilitate the proper application of the standard, but will expedite any subsequent revision. This appendix does not form part of the standard.

BS 5724-1:1979 has now been revised and this Particular Standard will be revised in due course to refer to the new edition, BS 5724-1:1989. BS 5724-1:1979 is expected to remain in effect until at least 1991.

Additional information. The following print types are used in this standard.

- Requirements, compliance with which can be tested, and definitions: in roman type.
- Explanations, advice, general statements, exceptions and references: in small roman type.
- Test procedures: in italic type.*
- Terms defined in clause 2 of the General Standard, in BS 6015 and this Particular Standard: SMALL CAPITALS.

Cross-references

International standard	Corresponding British Standard
IEC 601-1:1977	BS 5724 <i>Medical electrical equipment</i> Part 1:1979 <i>Specification for general safety requirements</i> (Technically equivalent)
IEC 601-2-12:1988	BS 5724 <i>Medical electrical equipment</i> Section 2.12:1990 <i>Specification for lung ventilators</i> (Identical)
ISO 4135:1979	BS 6015:1980 <i>Glossary of terms used in anaesthesiology</i> (Identical)

The Technical Committee has reviewed the provisions of IEC 65:1985, IEC 79-3:1972, IEC 79-4:1975 and ISO 5358:1980 to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. ISO 5358:1980 is related to BS 4272 “*Anaesthetic and analgesic machines*” — Part 3:1989 “*Specification for continuous flow anaesthetic machines*”.

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 to iv, pages 1 to 12, 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.

