
Medicinska električna oprema - 2-67. del: Posebne zahteve za osnovno varnost in bistvene lastnosti opreme za shranjevanje kisika (ISO/DIS 80601-2-67:2019)

Medical Electrical Equipment - Part 2-67: Particular requirements for basic safety and essential performance of oxygen-conserving equipment (ISO/DIS 80601-2-67:2019)

Medizinische elektrische Geräte - Teil 2-67: Besondere Festlegungen für die Basissicherheit einschließlich der wesentlichen Leistungsmerkmale von Sauerstoff-Dosiergeräten (ISO/DIS 80601-2-67:2019)

Appareils électromédicaux - Partie 2-67: Exigences particulières pour la sécurité de base et les performances essentielles des économiseurs d'oxygène (ISO/DIS 80601-2-67:2019)

Ta slovenski standard je istoveten z: prEN ISO 80601-2-67

ICS:

11.040.10	Anestezijska, respiratorna in reanimacijska oprema	Anaesthetic, respiratory and reanimation equipment
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oSIST prEN ISO 80601-2-67:2019 **en**

DRAFT INTERNATIONAL STANDARD

ISO/DIS 80601-2-67

ISO/TC 121/SC 3

Secretariat: ANSI

Voting begins on:
2019-07-25Voting terminates on:
2019-10-17

Medical electrical equipment —

Part 2-67:

Particular requirements for basic safety and essential performance of oxygen-conserving equipment

*Appareils électromédicaux —**Partie 2-67: Exigences particulières pour la sécurité de base et les performances essentielles des économiseurs d'oxygène*

ICS: 11.040.10

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Member bodies are requested to consult relevant national interests in IEC/SC 62D before casting their ballot to the e-Balloting application.

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ISO/CEN PARALLEL PROCESSING



Reference number
ISO/DIS 80601-2-67:2019(E)

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Published in Switzerland

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INTERNATIONAL ORGANIZATION for STANDARDISATION

MEDICAL ELECTRICAL EQUIPMENT –

**Part 2-67: Particular requirements for the basic safety and
essential performance of oxygen-conserving equipment**

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received. www.iso.org/patents

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

ISO 80601-2-67 was prepared by Technical Committee ISO/TC 121, *Anaesthetic and respiratory equipment*, Subcommittee SC 3, *Lung ventilators and related equipment*, and Technical Committee IEC/TC 62, *Electrical equipment in medical practice*, Subcommittee SC D, *Electrical equipment*. The draft was circulated for voting to the national bodies of both ISO and IEC.

81 This second edition of ISO 80601-2-67 cancels and replaces the first edition of
82 ISO 80601-2-67^[1] (2014). This edition of ISO 80601-2-67 constitutes a minor technical revision
83 of the first edition of ISO 80601-2-67^[1] and includes an alignment with the fourth edition of
84 IEC 60601-1-2, the third edition of IEC 60601-1-6, including its Amendment 1, the second edition
85 of IEC 60601-1-8, including its Amendment 1, and the second edition of IEC 60601-1-11.

86 The most significant changes are the following modifications:

- 87 – clarified the accessibility of inlet and outlet connectors; and
- 88 – formatted to provide a unique identifier for each requirement.

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¹ Figures in square brackets refer to the Bibliography.

INTRODUCTION

Long-term oxygen therapy has been demonstrated in randomized, controlled clinical trials to prolong survival in *patients* with chronic respiratory disease and documented hypoxemia. Typical sources of therapeutic long-term oxygen therapy include gaseous oxygen from cylinders or from liquid oxygen and oxygen from an oxygen concentrator.

Most clinicians prescribe low flow oxygen therapy as continuous flow oxygen (CFO) delivery in l/min. CFO systems deliver the flow of oxygen without regard for the *patient's* breathing rate or pattern. Outside of the institutional care setting, the provision of CFO therapy is often a significant expense and can limit the mobility of a *patient* to the immediate vicinity of a stationary or fixed oxygen delivery system. To support mobility, *patients* use CFO from portable liquid or compressed oxygen systems with a limited storage capacity that can limit a *patient's* time and activities while away from a stationary oxygen supply.

Conserving equipment that delivers supplemental oxygen as a bolus conserves usage while allowing satisfactory *patient* arterial oxygen saturation (SaO₂) to be maintained during daily activities. *Conserving equipment* delivers supplemental oxygen unlike CFO in that the therapy gas flow is delivered only during the inspiratory phase of the breath cycle, when it is most likely to reach the alveoli. During both the expiratory and pause phase of the breath cycle, the flow of supplemental oxygen is stopped, minimizing waste. Because flow over time produces a volume, the bolus delivered by the *conserving equipment* is typically represented as a volume of gas. Therapy using *conserving equipment* versus CFO results in lower operating costs and longer ambulatory times for *patients* using the same CFO storage capacity.

Operation of *conserving equipment* from various *manufacturers* might differ in the dose delivery mechanism resulting in variations in oxygen therapy to the *patient*. The use of CFO numerical markings for dose settings on *conserving equipment* might not directly correlate with CFO settings and might lead to misinterpretation of gas delivery rates and volumes for a particular *patient*. This might result in incorrect *patient* setup and therapy delivery over all breathing rates and patterns versus CFO. Because of the differences in delivery, settings, and markings versus CFO therapy, *conserving equipment* use requires *patient* titration to determine the proper setting(s) needed to provide adequate SaO₂ levels for the *patient* breathing patterns.

This document is intended to reduce ambiguity between operation of various *conserving equipment* models and CFO by requiring standardized performance testing and labelling.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this document, the following print types are used:

- requirements and definitions: roman type;
- *test specifications and terms defined in Clause 3 of the general standard², in this particular document or as noted: italic type; and*
- informative material appearing outside of tables, such as notes, examples and references: in smaller type. Normative text of tables is also in a smaller type.

In referring to the structure of this document, the term

² The general standard is IEC 60601-1:2005 +AMD1:2012, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance*

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- 129 – “clause” means one of the three numbered divisions within the table of contents, inclusive of
130 all subdivisions (e.g. Clause 201 includes subclauses 201.7, 201.8, etc.); and
- 131 – “subclause” means a numbered subdivision of a clause (e.g. 201.7, 201.8 and 201.9 are all
132 subclauses of Clause 201).
- 133 References to clauses within this document are preceded by the term “Clause” followed by the
134 clause number. References to subclauses within this particular document are by number only.
- 135 In this document, the conjunctive “or” is used as an “inclusive or” so a statement is true if any
136 combination of the conditions is true.
- 137 The verbal forms used in this document conform to usage described in ISO/IEC Directives, Part 2.
138 For the purposes of this document, the auxiliary verb:
- 139 – “shall” means that conformance with a requirement or a test is mandatory for conformance
140 with this document;
- 141 – “should” means that conformance with a requirement or a test is recommended but is not
142 mandatory for conformance with this document;
- 143 – “may” is used to describe a permission (e.g., permissible way to achieve conformance with a
144 requirement or test);
- 145 – “can” is used to describe a possibility or capability; and
- 146 – “must” is used express an external constraint.
- 147 Annex C contains a guide to the marking and labelling requirements in this document.
- 148 Annex D contains a summary of the symbols referenced in this document.
- 149 An asterisk (*) as the first character of a title or at the beginning of a paragraph or table title
150 indicates that there is guidance or rationale related to that item in Annex AA.
- 151 This document is a particular standard in the IEC 60601 and IEC/ISO 80601 series of standards.
- 152

MEDICAL ELECTRICAL EQUIPMENT –

Part 2-67: Particular requirements for the basic safety and essential performance of oxygen conserving equipment

201.1 * Scope, object and related standards

IEC 60601-1:2005+AMD1:2012, Clause 1 applies, except as follows:

201.1.1 Scope

IEC 60601-1:2005+AMD1:2012, 1.1 is replaced by:

This document is applicable to the *basic safety* and *essential performance* of oxygen conserving equipment, hereafter referred to as *ME equipment*, in combination with its *accessories* intended to conserve supplemental oxygen by delivering gas intermittently and synchronized with the *patient's* inspiratory cycle, when used in the *home healthcare environment*. Oxygen conserving equipment is typically used by a *lay operator*.

NOTE 1 *Conserving equipment* can also be used in professional health care facilities.

NOTE 2 *Conserving equipment* can be used with an oxygen concentrator.

This document is also applicable to those *accessories* intended by their *manufacturer* to be connected to *conserving equipment*, where the characteristics of those *accessories* can affect the *basic safety* or *essential performance* of the *conserving equipment*.

This document is only applicable to active devices (e.g. pneumatically or electrically powered) and is not applicable to non-active devices (e.g. reservoir cannulas).

NOTE 3 *Conserving equipment* conforming with this document can be incorporated with other devices that have their own standards, in which case the combination needs to conform with both standards.

EXAMPLES *Conserving equipment* combined with a pressure regulator (ISO 10524 series), an oxygen concentrator^[2] or liquid oxygen equipment^[3].

If a clause or subclause is specifically intended to be applicable to *ME equipment* only, or to *ME systems* only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to *ME equipment* and to *ME systems*, as relevant.

Hazards inherent in the intended physiological function of *ME equipment* or *ME systems* within the scope of this document are not covered by specific requirements in this document except in IEC 60601-1:2005+AMD1:2012, 7.2.13 and 8.4.1.

NOTE 4 Additional information can be found in IEC 60601-1:2005+AMD1:2012, 4.2.

This document is a particular standard in the IEC 60601 and IEC/ISO 80601 series of standards.

201.1.2 Object

IEC 60601-1:2005, 1.2 is replaced by:

The object of this document is to establish particular *basic safety* and *essential performance* requirements for *conserving equipment* [as defined in 201.3.201] and its *accessories*.

NOTE 1 *Accessories* are included because *accessories* can have a significant impact on the *basic safety* or *essential performance* of *conserving equipment*.

NOTE 2 This document has been prepared to address the relevant *essential principles of safety and performance* of ISO 16142-1:2016 as indicated in Annex BB.

NOTE 3 This document has been prepared to address the relevant general safety and performance requirements of European regulation (EU) 2017/745 as indicated in Annex CC.

201.1.3 Collateral standards

IEC 60601-1:2005+AMD1:2012, 1.3 applies with the following addition:

IEC 60601-1-2 and IEC 60601-1-6 apply as modified in Clauses 202 and 206 respectively. IEC 60601-1-3^[4] does not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

201.1.4 Particular standards

Replacement:

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard³ and collateral standards as appropriate for the particular *ME equipment* under consideration, and may add other *basic safety* and *essential performance* requirements.

A requirement of a particular standard takes priority over the general standard.

For brevity, IEC 60601-1 is referred to in this document as the general standard. Collateral standards are referred to by their document number.

The numbering of clauses and subclauses of this document corresponds to that of the general standard with the prefix “201” (e.g. 201.1 in this document addresses the content of Clause 1 of the general standard) or applicable collateral standard with the prefix “20x”, where x is the final digit(s) of the collateral standard document number (e.g. 202.4 in this document addresses the content of Clause 4 of the IEC 60601-1-2 collateral standard, 206.4 in this document addresses the content of Clause 4 of the IEC 60601-1-6 collateral standard, etc.). The changes to the text of the general standard are specified by the use of the following words:

“Replacement” means that the clause or subclause of the general standard or applicable collateral standard is replaced completely by the text of this document.

³ The general standard is IEC 60601-1:2005 +AMD1:2012, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance*

219 "Addition" means that the text of this document is additional to the requirements of the general
220 standard or applicable collateral standard.

221 "Amendment" means that the clause or subclause of the general standard or applicable collateral
222 standard is amended as indicated by the text of this document.

223 Subclauses, figures or tables which are additional to those of the general standard are numbered
224 starting from 201.101. However, due to the fact that definitions in the general standard are
225 numbered 3.1 through 3.147, additional definitions in this document are numbered beginning
226 from 201.3.201. Additional annexes are lettered AA, BB, etc., and additional items aa), bb), etc.

227 Subclauses, figures or tables which are additional to those of a collateral standard are numbered
228 starting from 20x, where "x" is the number of the collateral standard, e.g. 202 for IEC 60601-1-2,
229 203 for IEC 6060-1-3, etc.

230 The term "this document" is used to make reference to the general standard, any applicable
231 collateral standards and this particular document taken together.

232 Where there is no corresponding clause or subclause in this document, the clause or subclause of
233 the general standard or applicable collateral standard, although possibly not relevant, applies
234 without modification; where it is intended that any part of the general standard or applicable
235 collateral standard, although possibly relevant, is not to be applied, a statement to that effect is
236 given in this document.

237 **201.2 Normative references**

238 The following documents are referred to in the text in such a way that some or all of their content
239 constitutes requirements of this document. For dated references, only the edition cited applies.
240 For undated references, the latest edition of the referenced document (including any
241 amendments) applies.

242 NOTE 1 The way in which these referenced documents are cited in normative requirements determines
243 the extent (in whole or in part) to which they apply.

244 NOTE 2 Informative references are listed in the Bibliography.

245 IEC 60601-1:2005+AMD1:2012, Clause 2 applies, except as follows:

246 *Replacement:*

247 ISO 7010:2011+AMD1:2012+AMD2:2012+AMD3:2012+AMD4:2013+AMD5:2014
248 +AMD6:2014+AMD7:2016, *Graphical symbols -- Safety colours and safety signs -- Registered*
249 *safety signs*

250 IEC 60601-1-2:2014, *Medical electrical equipment — Part 1-2: General requirements for basic*
251 *safety and essential performance — Collateral standard: Electromagnetic disturbances —*
252 *Requirements and tests*

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- 253 IEC 60601-1-6:2010, *Medical electrical equipment — Part 1-6: General requirements for basic*
 254 *safety and essential performance — Collateral standard: Usability*
 255 *+Amendment 1:2013*⁴
- 256 IEC 60601-1-8:2006+AMD1:2012, *Medical electrical equipment - Part 1-8: General requirements*
 257 *for basic safety and essential performance - Collateral Standard: General requirements, tests and*
 258 *guidance for alarm systems in medical electrical equipment and medical electrical systems*
- 259 IEC 60601-1-11:2015, *Medical electrical equipment – Part 1-11: General requirements for basic*
 260 *safety and essential performance – Collateral Standard: Requirements for medical electrical*
 261 *equipment and medical electrical systems used in the home healthcare environment*
- 262 *Addition:*
- 263 ISO 32:1977, *Gas cylinders for medical use — Marking for identification of content*
- 264 ISO 5359:2014, *Low-pressure hose assemblies for use with medical gases*
- 265 ISO 7396-1:2016, *Medical gas pipeline systems — Part 1: Pipeline systems for compressed medical*
 266 *gases and vacuum*
- 267 ISO 9000:2015, *Quality management systems -- Fundamentals and vocabulary*
- 268 ISO 10524-1:2006, *Pressure regulators for use with medical gases — Part 1: Pressure regulators*
 269 *and pressure regulators with flow-metering devices*
- 270 ISO 10524-3:2005, *Pressure regulators for use with medical gases — Part 3: Pressure regulators*
 271 *integrated with cylinder valves*
- 272 *+Amendment 1:2013*
- 273 ISO 14937:2009, *Sterilization of health care products — General requirements for characterization*
 274 *of a sterilizing agent and the development, validation and routine control of a sterilization process*
 275 *for medical devices*
- 276 ISO 15223-1:2016, *Medical devices — Symbols to be used with medical device labels, labelling and*
 277 *information to be supplied — Part 1: General requirements*
- 278 ISO 16142-1:2016, *Medical devices -- Recognized essential principles of safety and performance of*
 279 *medical devices -- Part 1: General essential principles and additional specific essential principles for*
 280 *all non-IVD medical devices and guidance on the selection of standards*
- 281 ISO 17664:2017, *Processing of health care products -- Information to be provided by the medical*
 282 *device manufacturer for the processing of medical devices*
- 283 ISO 18562-1:2017, *Biocompatibility evaluation of breathing gas pathways in healthcare*
 284 *applications -- Part 1: Evaluation and testing within a risk management process*
- 285 ISO 19223-1:2019, *Lung ventilators and related equipment -- Vocabulary and semantics*

⁴ There exists a consolidated edition 3.1(2013) including IEC 60601-1-6:2010 and its Amendment 1:2013.

286 ISO 80369-1:2018, *Small-bore connectors for liquids and gases in healthcare applications — Part*
 287 *1: General requirements*

288 ISO 80601-2-74:2017, *Medical electrical equipment -- Part 2-74: Particular requirements for basic*
 289 *safety and essential performance of respiratory humidifying equipment*

290 IEC 60601-1:2005+AMD1:2012, *Medical electrical equipment — Part 1: General requirements for*
 291 *basic safety and essential performance*

292 IEC 60601-1-2:2014, *Medical electrical equipment - Part 1-2: General requirements for basic safety*
 293 *and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and*
 294 *tests*

295 IEC 60601-1-6:2010+AMD1:2013, *Medical electrical equipment - Part 1-6: General requirements*
 296 *for basic safety and essential performance - Collateral standard: Usability*

297 IEC 62366-1:2015, *Medical devices -- Part 1: Application of usability engineering to medical devices*

298 EN 13544-2:2002, *Respiratory therapy equipment - Part 2: Tubing and connectors*
 299 *+Amendment 1:2009*

300 EN 15986:2011, *Symbol for use in the labelling of medical devices - Requirements for labelling of*
 301 *medical devices containing phthalates*

302 **201.3 Terms and definitions**

303 For the purposes of this document, the terms and definitions given in ISO 7396-1:2016,
 304 ISO 9000:2015, ISO 16142-1:2016, ISO 17664:2017, ISO 18562-1:2017, ISO 19223:2019,
 305 ISO 80601-2-74:2017, IEC 60601-1:2005+AMD1:2012, IEC 60601-1-2:2014,
 306 IEC 60601-1-6:2010+AMD1:2013, IEC 60601-1-8:2006+AMD1:2012, IEC 60601-1-11:2015,
 307 IEC 62366-1:2015 and the following apply.

308 ISO and IEC maintain terminological databases for use in standardization at the following
 309 addresses:

- 310 – IEC Electropedia: available at <http://www.electropedia.org/>
- 311 – ISO Online browsing platform: available at <http://www.iso.org/obp>

312 NOTE An alphabetized index of defined terms is found in Annex DD.

313 *Addition:*

314 **201.3.201** 315 ***conserving equipment***

316 *ME equipment* intended to conserve supplemental oxygen by delivering gas intermittently and
 317 synchronized with the *patient's* inspiratory cycle

318 Note to entry: *Conserving equipment* can be electrically or pneumatically powered.