

Edition 2.0 2020-09

# INTERNATIONAL STANDARD



### Medical electrical equipment ANDARD PREVIEW

Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use

IEC 60601-2-35:2020

https://standards.iteh.ai/catalog/standards/sist/c84d033a-16ae-4135-a2e5-ed0f7101d418/iec-60601-2-35-2020





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Tel.: +41 22 919 02 11

IEC Central Office 3, rue de Varembé CH-1211 Geneva 20

info@iec.ch www.iec.ch

Switzerland

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## CONTENTS

FOREWO	RD	4
INTRODU	CTION	7
201.1	Scope, object and related standards	8
201.2	Normative references	10
201.3	Terms and definitions	10
201.4	General requirements	13
201.5	General requirements for testing ME EQUIPMENT	14
201.6	Classification of ME EQUIPMENT and ME SYSTEMS	14
201.7	ME EQUIPMENT identification, marking and documents	14
201.8	Protection against electrical HAZARDS from ME EQUIPMENT	18
201.9	Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS	24
201.10	Protection against unwanted and excessive radiation HAZARDS	26
201.11	Protection against excessive temperatures and other HAZARDS	26
201.12	Accuracy of controls and instruments and protection against hazardous outputs	28
201.13	HAZARDOUS SITUATIONS and fault conditions for ME EQUIPMENT	33
201.14	PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)	38
201.15	Construction of ME EQUIPMENT dards.iteh.ai	38
201.16	ME SYSTEMS	42
201.17	Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	42
202 ELE	https://standards.iteh.ai/catalog/standards/sist/c84d033a-16ae-4135-a2e5- CTROMAGNETIC DISTURBANCES — Requirements and tests	43
208 Gen	eral requirements, tests and guidance for ALARM SYSTEMS IN MEDICAL	
	CTRICAL EQUIPMENT and MEDICAL ELECTRICAL SYSTEMS	
	quirements for the development of PHYSIOLOGIC CLOSED-LOOP CONTROLLERS	
	informative) Symbols on marking	
Annex AA (informative) Particular guidance and rationale		
Annex BB (normative) Determination of the LAGGING MATERIAL		
Annex CC	(normative) * Determination of heat transfer towards the PATIENT	58
Annex DD (normative) * Determination of heat transfer away from the PATIENT		60
Annex EE	(normative) CONDITIONS OF ADEQUATE HEAT DISCHARGE	61
Annex FF (normative) Test procedure for maximum CONTACT SURFACE TEMPERATURE for FORCED AIR DEVICES		62
	(normative) Test procedure for maximum CONTACT SURFACE TEMPERATURE  O AIR DEVICES under SINGLE FAULT CONDITION	64
	(normative) Safety test procedure for average CONTACT SURFACE URE for FORCED AIR DEVICES	65
Bibliograp	hy	67
Index of defined terms used in this document		
	1.101 – Positioning of temperature sensors on the contact surface of the ea of a HEATING DEVICE (see 201.12.4.101 and 201.12.4.105)	11

Figure 201.102 – Example of the positioning of temperature sensors on the contact surface of the heated areas of a HEATING DEVICE having more than one separately	
heated area	12
Figure 201.103 – Apparatus for the spark ignition test	22
Figure 201.104 – Ramp for the impact test on PADS	24
Figure 201.105 – Partial covering conditions	26
Figure 201.106 – Method of folding BLANKETS	35
Figure 201.107 – Examples of folds	37
Figure 201.108 – Positions of a BLANKET for the RUCK-RESISTANCE test	42
Figure AA.1 – Illustration of the main requirements of this document	45
Figure HH.1 – Sensor locations – Average CONTACT SURFACE TEMPERATURE	66
Table 201.101 – * Additional ESSENTIAL PERFORMANCE requirements	14
Table 201.102 – Temperature limits in dependency to time	39

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#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

#### **MEDICAL ELECTRICAL EQUIPMENT -**

# Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use

#### **FOREWORD**

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International Standard IEC 60601-2-35 has been prepared by IEC technical committee 62D: Electromedical equipment, of IEC technical committee 62: Electrical equipment in medical practice.

This second edition cancels and replaces IEC 80601-2-35 published in 2009 and Amendment 1:2016.

The text of this particular standard is based on the following documents:

FDIS	Report on voting
62D/1765/FDIS	62D/1777/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document 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: italic type;
- 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;
- TERMS DEFINED IN CLAUSE 3 OF THE GENERAL STANDARD, IN THIS PARTICULAR STANDARD OR AS NOTED: SMALL CAPITALS.

In referring to the structure of this document, the term

- "clause" means one of the seventeen numbered divisions within the table of contents, inclusive of all subdivisions (e.g. Clause 7 includes subclauses 7.1, 7.2, etc.);
- "subclause" means a numbered subdivision of a clause (e.g. 7.1, 7.2 and 7.2.1 are all subclauses of Clause 7).

References to clauses within this document are preceded by the term "Clause" followed by the clause number. References to subclause's within 2this particular standard are by number only. https://standards.iteh.ai/catalog/standards/sist/c84d033a-16ae-4135-a2e5-

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In this document, the conjunctive "or" is used as an "inclusive or" so a statement is true if any combination of the conditions is true.

The verbal forms used in this document conform to usage described in Clause 7 of the ISO/IEC Directives, Part 2. For the purposes of this document, the auxiliary verb:

- "shall" means that compliance with a requirement or a test is mandatory for compliance with this document;
- "should" means that compliance with a requirement or a test is recommended but is not mandatory for compliance with this document;
- "may" is used to describe a permissible way to achieve compliance with a requirement or test.

An asterisk (\*) as the first character of a title or at the beginning of a paragraph or table title indicates that there is guidance or rationale related to that item in Annex AA.

A list of all parts of the 60601 International Standard, published under the general title *Medical electrical equipment*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- · reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

NOTE The attention of users of this document is drawn to the fact that equipment manufacturers and testing organizations may need a transitional period following publication of a new, amended or revised IEC publication in which to make products in accordance with the new requirements and to equip themselves for conducting new or revised tests. It is the recommendation of the committees that the content of this publication be adopted for implementation nationally not earlier than 3 years from the date of publication.

IMPORTANT – The "colour inside" logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

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#### INTRODUCTION

The minimum safety requirements specified in this particular standard are considered to provide for a practical degree of safety in the operation for HEATING DEVICES using BLANKETS, PADS or MATTRESSES and intended for heating in medical use.

While K (degree Kelvin) is the recognized unit and symbol for absolute temperature and temperature difference, °C has been used throughout this document because all measurements are commonly made using equipment marked with the Celsius temperature scale.

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#### **MEDICAL ELECTRICAL EQUIPMENT -**

Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use

#### 201.1 Scope, object and related standards

Clause 1 of the general standard applies, except as follows:

#### 201.1.1 \* Scope

#### Replacement:

This part of 60601 International Standard applies to the BASIC SAFETY and ESSENTIAL PERFORMANCE of HEATING DEVICES using BLANKETS, PADS or MATTRESSES in medical use, also referred to as ME EQUIPMENT. HEATING DEVICES intended to prewarm a bed are included in the scope of this document.

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.

If a clause or subclause is specifically intended to be applicable to a specifically defined type of ME EQUIPMENT, as is the case with FORCED AIR DEVICES, then 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 7.2.13 and 8.4.1 of the general standard.

NOTE See also 4.2 of the general standard.

This document does not apply to:

- HEATING DEVICES intended for physiotherapy;
- INFANT RADIANT WARMERS; for information, see IEC 60601-2-21 [1]2;
- INFANT INCUBATORS; for information, see IEC 60601-2-19 [2];
- INFANT TRANSPORT INCUBATORS, for information, see IEC 60601-2-20 [3];
- cooling devices.

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

<sup>&</sup>lt;sup>2</sup> Figures in square brackets refer to the Bibliography.

#### 201.1.2 Object

#### Replacement:

The object of this particular standard is to establish particular BASIC SAFETY and ESSENTIAL PERFORMANCE requirements, which minimize HAZARDS to PATIENTS, and OPERATORS for HEATING DEVICES using BLANKETS, PADS or MATTRESSES and intended for heating in medical use and to specify tests for demonstrating compliance with these requirements.

#### 201.1.3 Collateral standards

#### Addition:

This particular standard refers to those applicable collateral standards that are listed in Clause 2 of the general standard and Clause 201.2 of this particular standard.

IEC 60601-1-2:2014, IEC 60601-1-8:2006 and IEC 60601-1-8:2006/AMD1:2012, and IEC 60601-1-10:2007 and IEC 60601-1-10:2007/AMD1:2013 apply as modified in Articles 202, 208 and 210 respectively. IEC 60601-1-3 does not apply. All other published collateral standards in the IEC 60601-1 series apply as published.

#### 201.1.4 Particular standards

#### Replacement:

### iTeh STANDARD PREVIEW

In the IEC 60601 series, particular standards may modify, replace or delete requirements contained in the general standard and collateral standards as appropriate for the particular ME EQUIPMENT under consideration, and may add other BASIC SAFETY and ESSENTIAL PERFORMANCE requirements.

IEC 60601-2-35:2020

https://standards.iteh.ai/catalog/standards/sist/c84d033a-16ae-4135-a2e5-

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

For brevity, IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012 are referred to in this particular standard 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, 203.4 in this document addresses the content of Clause 4 of the IEC 60601-1-3 collateral standard, etc.). The changes to the text of the general standard and applicable collateral standards 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 particular standard.

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

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

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

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

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

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

#### 201.2 Normative references

NOTE Informative references are listed in the Bibliography.

Clause 2 of the general standard applies, except as follows:

Addition:

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IEC 60601-1:2005, Medical electrical equipments for basic safety and essential performance hai/catalog/standards/sist/c84d033a-16ae-4135-a2e5-IEC 60601-1:2005/AMD1:2012 ed0f7101d418/iec-60601-2-35-2020

IEC 60601-1-10:2007, Medical electrical equipment – Part 1-10: General requirements for basic safety and essential performance – Collateral Standard: Requirements for the development of physiologic closed-loop controllers IEC 60601-1-10:2007/AMD1:2013

#### Replacement:

IEC 60384-14:2013, Fixed capacitors for use in electronic equipment – Part 14: Sectional specification – Fixed capacitors for electromagneticinterference suppression and connection to the supply mains IEC 60384-14:2013/AMD1:2016

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

#### 201.3 Terms and definitions

For the purposes of this document, the terms and definitions specified in IEC 60601-1:2005 and IEC 60601-1:2005/AMD1:2012, and the following apply.

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

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

NOTE An index of defined terms used in this document is found beginning on page 69.

Addition:

#### 201.3.201.1

#### **BLANKET**

<other than FORCED AIR DEVICES> APPLIED PART of HEATING DEVICE, which can be folded, for use under or over a PATIENT

#### 201.3.201.2

#### **BLANKET**

<FORCED AIR DEVICES> APPLIED PART of HEATING DEVICE intended to be used with a CONTROLLER to transfer thermal energy to all or part of the body of a PATIENT

#### 201.3.202

#### CONDITIONS OF ADEQUATE HEAT DISCHARGE

conditions achieved when a HEATING DEVICE is supported and covered as specified in Annex EE

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#### 201.3.203.1

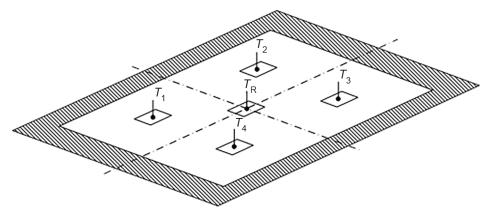
#### CONTACT SURFACE TEMPERATURE Standards.iteh.ai)

<other than FORCED AIR DEVICES> temperature  $T_R$  at the reference point of the heated APPLIED **PART** IEC 60601-2-35:2020

https://standards.iteh.ai/catalog/standards/sist/c84d033a-16ae-4135-a2e5-

Note 1 to entry: See Figures 201.101 and 201.10218/iec-60601-2-35-2020

Note 2 to entry: The CONTACT SURFACE TEMPERATURE for FORCED AIR DEVICES is measured by the test methods described in Annexes FF, GG and HH.



IFC.

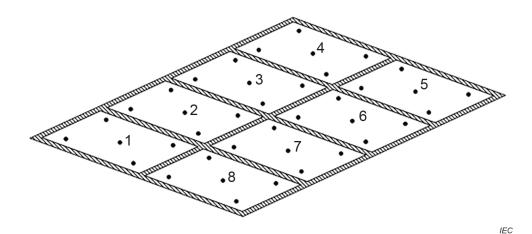
#### Key

 $T_{\mathsf{R}}$  CONTACT SURFACE TEMPERATURE reference point on the contact surface

Some HEATING DEVICES may have unheated areas shown in the following figures as:



Figure 201.101 - Positioning of temperature sensors on the contact surface of the heated area of a HEATING DEVICE (see 201.12.4.101 and 201.12.4.105)



The temperature at the centre point of any one of the heated areas closest to the centre of the HEATING DEVICE (in the example shown above 2, 3, 6, or 7) is treated as  $T_{\rm R}$ .

Figure 201.102 – Example of the positioning of temperature sensors on the contact surface of the heated areas of a HEATING DEVICE having more than one separately heated area

#### 201.3.203.2

#### **CONTACT SURFACE TEMPERATURE**

< FORCED AIR DEVICES temperature resulting from the heat transferred to a target surface by the APPLIED PART

## (standards.iteh.ai)

#### 201.3.204

#### CONTROLLER

part of a HEATING DEVICE intended to supply and control thermal energy to a BLANKET, PAD or MATTRESS

MATTRESS

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Note 1 to entry: This includes the HOSE, if present.

#### 201.3.205

#### **FORCED AIR DEVICE**

HEATING DEVICE that uses air as the heat transfer medium to warm a PATIENT and is comprised of a CONTROLLER and a BLANKET

#### 201.3.206

#### FREE HOSING

hazardous practice or condition of using the CONTROLLER without a BLANKET

#### 201.3.207

#### **HEATING DEVICE**

ME EQUIPMENT intended to supply heat to the whole or part of the body of a PATIENT by means of heated BLANKETS, PADS, or MATTRESSES

#### 201.3.208

#### **HIGH HEAT TRANSFER**

thermal characteristic of a HEATING DEVICE as determined according to Annex CC or Annex DD

#### 201.3.209

#### HOSE

component of the CONTROLLER that is the conduit for the heat transfer medium to and/or from the BLANKET, PAD or MATTRESS

#### 201.3.210

#### **INFANT**

PATIENT up to the age of three months and with a weight less than 10 kg

#### 201.3.211

#### **LAGGING MATERIAL**

polyurethane or polystyrene insulation material used in the test methods of this specification to assist in the determination of temperature

Note 1 to entry: Specifications for LAGGING MATERIAL are given in Annexes BB and FF.

#### 201.3.212

#### **LOW HEAT TRANSFER**

thermal characteristic of a HEATING DEVICE as determined according to Annex CC or Annex DD

#### 201.3.213

#### **MATTRESS**

APPLIED PART of a HEATING DEVICE, which provides resilient support to the whole body of a PATIENT

#### 201.3.214

#### **NOZZLE**

end of the HOSE that connects to the BLANKET, PAD or MATTRESS

#### 201.3.215 iTeh STANDARD PREVIEW

#### **OVER-BLANKET**

BLANKET designed to be used over a PATENT (S.iteh.ai)

#### 201.3.216

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PAD

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APPLIED PART of HEATING DEVICE, which can be bent but not folded

#### 201.3.217

#### RUCK

unintended fold in a normally even surface

#### 201.3.218

#### **RUCK-RESISTANT BLANKET**

BLANKET having a construction such that RUCKING of the flexible part is unlikely

#### 201.3.219

#### **UNDER-BLANKET**

BLANKET designed to be used under a PATIENT

#### 201.4 General requirements

Clause 4 of the general standard applies except as follows:

#### 201.4.3 ESSENTIAL PERFORMANCE

Addition:

#### 201.4.3.101 Additional requirements for ESSENTIAL PERFORMANCE

Additional ESSENTIAL PERFORMANCE requirements are found in the subclauses listed in Table 201.101.