



BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-53: Particular requirements for sauna
heating appliances and infrared cabins

National foreword

This British Standard is the UK implementation of EN 60335-2-53:2011+A11:2023. It is derived from IEC 60335-2-53:2011, incorporating amendment 1:2017, corrigendum March 2017, and amendment 2:2021. It supersedes BS EN 60335-2-53:2011, which will be withdrawn on 1 March 2026.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by **A1** ~~A1~~.

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The UK participation in its preparation was entrusted to Technical Committee CPL/61/7, Safety of electrical appliances - Heated appliance group.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2023

ISBN 978 0 580 93654 8

ICS 97.100.10

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2012.

Amendments/corrigenda issued since publication

Date	Text affected
30 June 2023	Implementation of IEC amendment 1:2017 with CENELEC endorsement A1:2023
30 June 2023	Implementation of IEC corrigendum March 2017
30 June 2023	Implementation of IEC amendment 2:2021 with CENELEC endorsement A2:2023
30 June 2023	Implementation of CENELEC amendment A11:2023

English version

**Household and similar electrical appliances -
Safety -
Part 2-53: Particular requirements for sauna heating appliances and
infrared cabins
(IEC 60335-2-53:2011)**

Appareils électrodomestiques et
analogues -
Sécurité -
Partie 2-53: Règles particulières pour les
appareils de chauffage de saunas et les
cabines infrarouges
(CEI 60335-2-53:2011)

Sicherheit elektrischer Geräte für den
Hausgebrauch und ähnliche Zwecke -
Teil 2-53: Besondere Anforderungen für
Saunaheizgeräte und Infrarot-Kabinen
(IEC 60335-2-53:2011)

This European Standard was approved by CENELEC on 2011-05-25. CENELEC 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Ref. No. EN 60335-2-53:2011 E

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Foreword

The text of document 61/4135/FDIS, future edition 4 of IEC 60335-2-53, prepared by IEC/TC 61 "Safety of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60335-2-53:2011.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2012-06-16
- date on which national standards
conflicting with the EN have to be withdrawn (dow) 2014-05-25

This European Standard supersedes EN 60335-2-53:2003 + A1:2007.

The principal changes in EN 60335-2-53:2011 as compared with EN 60335-2-53:2003 are as follows (minor changes are not listed):

- the scope is changed to cover infrared cabins;
- additional requirements for recessed sauna heaters are added;
- requirements of electronic interlocks are added (22.108).

This Part 2 has to be used in conjunction with EN 60335-1:2012, Household and similar electrical appliances – Safety – Part 1: General requirements.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to EN 60335-1.

This Part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Safety requirements for electric sauna heating appliances and infrared cabins.

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text of Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.;
- subclauses, notes and annexes that are additional to those in the IEC standard are prefixed with the letter Z.

NOTE 3 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

There are no special national conditions causing a deviation from this European Standard, other than those listed in Annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in Annex ZB to EN 60335-1.

p NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

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 Text deleted 

Endorsement notice

The text of the International Standard IEC 60335-2-53:2011 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A1

This document (EN 60335-2-53:2011/A1:2023) consists of the text of IEC 60335-2-53:2011/A1:2017 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2023-12-02
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conflicting with this document have to be withdrawn

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This document is read in conjunction with EN 60335-2-53:2011/A1:2023 and EN 60335-2-53:2011/A11:2023.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 60335-2-53:2011/A1:2017 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A2

This document (EN 60335-2-53:2011/A2:2023) consists of the text of IEC 60335-2-53:2011/A2:2021 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

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- latest date by which this document has to be (dop) 2023-12-02
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Endorsement notice

The text of the International Standard IEC 60335-2-53:2011/A2:2021 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A11

This document (EN 60335-2-53:2011/A11:2023) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

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implemented at national level by publication of
an identical national standard or by
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- latest date by which the national standards (dow) 2026-06-02
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withdrawn

This document is read in conjunction with EN 60335-2-53:2011/A1:2023 and EN 60335-2-53:2011/A2:2023.

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The numbering system for European clauses, subclauses, notes, tables, figures and annexes that are additional to those in the IEC standard are prefixed with the letter "Z".

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

Part 2-53: Particular requirements for sauna heating appliances and infrared cabins

FOREWORD

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International Standard IEC 60335-2-53 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This fourth edition constitutes a technical revision.

The principal changes in this edition as compared with the third edition of IEC 60335-2-53 are as follows (minor changes are not listed):

- the scope is changed to cover infrared cabins;
- additional requirements for recessed sauna heaters are added;
- requirements of electronic interlocks are added (22.108).

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

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

NOTE 1 When “Part 1” is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for electric sauna heating appliances and infrared cabins.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
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- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

NOTE 4 The attention of National Committees 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 committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

The following differences exist in the countries indicated below.

- 6.1: Class 0I appliances are allowed (Japan).
- 11.2: The temperature rises in front of the sauna heater are not measured (USA).
- 11.8: The temperature rise limits are different (USA).
- 13.2: Leakage current tests are carried out on sauna heaters having a supply cord (USA).
- 16.2: Leakage current tests are carried out on sauna heaters having a supply cord (USA).
- 19.1: The volume of the sauna room is different (USA).
- 19.5: The test is also carried out on appliances intended to be permanently connected to fixed wiring (Norway).
-  19.101: Sauna heating appliances provided with a programmable timer are considered to be appliances that are used remotely (Finland); .
- 19.102: The test is not applicable (USA).
- 22.101: The mass of rocks is different (USA).
- 22.103: The requirement is not applicable (USA).
- 24.102: The 125 °C limit is not applicable (USA).
- 25.7: The supply cords are different (USA).
- Annex AA: The sauna room is different (USA).

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