BS EN 60335-2-30:2009+A13:2022
Incorporating corrigenda March 2010 and November 2014

BSI Standards Publication

Household and similar electrical appliances — Safety

Part 2-30: Particular requirements for room heaters

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Full document details: BS EN 60335-2-30:2009+A13:2022

National foreword

This British Standard is the UK implementation of EN 60335-2-30:2009+A13:2022 incorporating corrigendum March 2010. It is derived from IEC 60335-2-30:2009, incorporating corrigendum November 2014, amendment 1:2016 and amendment 2:2022. It supersedes BS EN 50408:2008+A1:2011, which will be withdrawn on 12 February 2023 and BS IEC 60335-2-30:2009+A2:2021, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to text carry the number of the IEC or CENELEC amendment. For example, text altered by IEC amendment A1 is indicated by [A1] 〈A1〉; text altered by CENELEC amendment A11 is indicated by [A11] 〈A11〉.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags [C] 〈C〉. Where a common modification to an IEC amendment has been introduced, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC to IEC amendment 1 are indicated by [C1] 〈C1〉.

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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For the Great Britain market (England, Scotland and Wales), if UK Government has designated this publication for conformity with UKCA marking (or similar) legislation, it may contain an additional National Annex. Where such a National Annex exists, it shows the correlation between this publication and the relevant UK legislation. If there is no National Annex of this kind, the relevant Annex ZA or ZZ in the body of the European text will indicate the relationship to UK regulation

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applicable in Great Britain. References to EU legislation may need to be read in accordance with the UK designation and the applicable UK law. Further information on designated standards can be found at www.bsigroup.com/standardsandregulation.

For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. Therefore Annex ZA/ZZ in the European text, and references to EU legislation, are still valid for this market.

UK Government is responsible for legislation. For information on legislation and policies relating to that legislation, consult the relevant pages of www.gov.uk.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Text affected
31 May 2010	Implementation of CENELEC corrigendum March 2010. Replacement of sixth paragraph in CENELEC foreword.
31 May 2012	Implementation of CENELEC amendment A11:2012
30 November 2014	Implementation of IEC corrigendum November 2014: Table 101, replacement of second entry in second row of first column
28 February 2021	Implementation of IEC amendment 1:2016 with CENELEC endorsement A1:2020, including the addition of Annexes ZA and ZZ
28 February 2021	Implementation of CENELEC amendment A12:2020; Annexes ZA and ZZ renamed as Annexes ZC and ZZA respectively
31 October 2022	Implementation of IEC amendment 2:2021 with CENELEC endorsement A2:2022
30 November 2022	Implementation of CENELEC amendment A13:2022

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60335-2-30:2009+A13

September 2022

ICS 13.120; 97.100.10

Supersedes EN 60335-2-30:2003 + A1:2004 + A2:2007

Supersedes EN 50408:2008
and all of its amendments and corrigenda (if any)

English version

Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters

(IEC 60335-2-30:2009)

Appareils électrodomestiques et analogues - Sécurité - Partie 2-30: Règles particulières pour les appareils de chauffage des locaux
(CEI 60335-2-30:2009)

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-30: Besondere Anforderungen für Raumheizgeräte
(IEC 60335-2-30:2009)

This European Standard was approved by CENELEC on 2009-12-01. 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 Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

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European Foreword

The text of document 61/3910/FDIS, future edition 5 of IEC 60335-2-30, prepared by IEC TC 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-30 on 2009-12-01.

This European Standard supersedes EN 60335-2-30:2003 + A1:2004 + A2:2007.

The principal changes in EN 60335-2-30:2009 as compared with EN 60335-2-30:2003 are as follows (minor changes are not listed):

– some additional instructions are introduced for heaters without a built-in thermostat, or those installed in the floor or in a bathroom (7.12 and 7.12.1);

– a spillage test is introduced for appliances having a grille and that are built into the floor (15.2).

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)	2010-09-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-12-01

This Part 2 has to be used in conjunction with EN 60335-1, Household and similar electrical appliances – Safety – Part 1: General requirements. It was established on the basis of the 2002 edition of that standard. Amendments and revisions of Part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of Part 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 automatic machines for floor treatment for commercial use.

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

NOTE 1 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 2 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.

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Endorsement notice

The text of the International Standard IEC 60335-2-30:2009 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A11

This document (EN 60335-2-30:2009/A11:2012) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-02-20
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2015-02-20

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 and EN 60335-2-30:2009.

There are no special national conditions causing a deviation from this amendment.

There are no national deviations from this amendment.

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Full document details: BS EN 60335-2-30:2009+A13:2022

European foreword to amendment A1

The text of document 61/5281/FDIS, future IEC 60335-2-30/A1, 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 60335-2-30:2009/A1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-11-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-02-12

This document supersedes EN 50408:2008 and all of its amendments and corrigenda (if any).

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s), see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 60335-2-30:2009/A1:2016 was approved by CENELEC as a European Standard without any modification.

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Full document details: BS EN 60335-2-30:2009+A13:2022

European foreword to amendment A12

This document (EN 60335-2-30:2009/A12:2020) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2021-08-28
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2023-02-12

This amendment supplements or modifies the corresponding clauses of the standards below:

– EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 (Part 1)

– EN 60335-2-30:2009+AC:2010+A11:2012+AC:2014+A1:2020 (Part 2)

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Full document details: BS EN 60335-2-30:2009+A13:2022

European foreword to Amendment A2

This document (EN 60335-2-30:2009/A2:2022) consists of the text of document IEC 60335-2-30:2009/A2:2021, 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 implemented at national level by publication of an identical national standard or by endorsement	(dop)	2023-06-20
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2025-06-20

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN 60335-2-30:2009/A13:2022.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For the relationship with EU Directives see informative Annex ZZA, which is an integral part of EN 60335-2-30:2009/A13:2022.

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 60335-2-30:2009/A2:2021 was approved by CENELEC as a European Standard without any modification.

European foreword to amendment A13

This document EN 60335-2-30:2009/A13:2022 has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2023-06-20
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2025-06-20

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This document is read in conjunction with EN 60335-2-30:2009/A2:2022.

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".

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directives see informative Annex ZZA, which is an integral part of this document.

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 2-30: Particular requirements for room heaters

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60335-2-30 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This fifth edition cancels and replaces the fourth edition published in 2002, its Amendment 1 (2004) and Amendment 2 (2007). It constitutes a technical revision.

The principal changes in this edition as compared with the fourth edition of IEC 60335-2-30 are as follows (minor changes are not listed):

– some additional instructions are introduced for heaters without a built-in thermostat, or those installed in the floor or in a bathroom (7.12 and 7.12.1);
– a spillage test is introduced for appliances having a grille and that are built into the floor (15.2).

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

FDIS	Report on voting
61/3910/FDIS	61/3957/RVD

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

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 fourth edition (2001) 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 room heaters.

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;
– 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.

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.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the maintenance result 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.

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The following differences exist in the countries indicated below.

– 3.105: The immediate surround of a fireguard is extended to 50 mm (Austria, Germany and United Kingdom).
– 7.1: All heaters, except those for mounting at high level, are to be marked with a warning against covering (Norway).
– 7.1: All heaters, except those for permanent connection to fixed wiring, are to be marked with the minimum distances to combustible surfaces (Norway).
– 7.1: Appliances are not required to be marked "Do not cover" (USA).
– 7.12: Some of the instructions specified are to be marked on the heater (Norway and USA).
– Clause 11: The test methods are different (USA).
– A1 *Text deleted* A1
– 11.8: For all fixed heaters, other than those for mounting at high level, the limit is 115 K for metallic air-outlet grilles and their surrounds (France).
– 11.8: For heaters used in hygiene rooms of dwellings, nurseries or after-school centres, the temperatures of surfaces accessible to test probe B of IEC 61032 are not to exceed 60 °C (Sweden).
– Clause 19: The tests are different (Canada and USA).
– 19.103: Visibly glowing radiant heaters, other than those for mounting at high level, have to withstand the test of this subclause (Sweden).
– 20.1: The test is different (USA).
– 22.7: The test is different (USA).
– 22.24: The test is different (USA).
– 22.101: The requirement is different (Canada and USA).
– 22.102: The requirement is different (Canada and USA).
– 22.103: The requirement is different (Canada and USA).
– 22.105: The requirement is different (USA).
– 22.108: The requirement is different (USA).
– 24.1.3: The number of cycles of operation is 6 000 (USA).
– 24.1.4: Thermal cut-outs that protect heating elements against overheating, incorporated in fan heaters and in stationary heaters intended to be mounted on or near to a wall, other than those for mounting at high level, are to be of the non-self-resetting type (Sweden).
– 25.3: Fixed appliances are to be appliances intended to be permanently connected to fixed wiring (France).

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.

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules may differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal and generic standards covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards. For example, in the case of temperature requirements for surfaces on many appliances, generic standards, such as ISO 13732-1 for hot surfaces, are not applicable in addition to Part 1 or part 2 standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

〚A13〛 This European Amendment A13 supplements or modifies the corresponding clauses of the standards below:

— EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021+A16:2022 (Part 1)

— EN 60335-2-30:2009+AC:2010+A11:2012+AC:2014+A1:2020+A12:2020+A2:2022 (Part 2) 〈A13〉

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