



## BSI Standards Publication

### Household and similar electrical appliances — Safety

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Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor

## National foreword

This British Standard is the UK implementation of EN 60335-2-89:2010+A2:2017. It is derived from [IEC 60335-2-89:2010](#), incorporating amendment 1:2012 and amendment 2:2015. It supersedes BS EN 60335-2-89:2010+A1:2016, which will be withdrawn on 3 July 2020.

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**.

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, Safety of household and similar electrical appliances.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 April 2010.

### Amendments/corrigenda issued since publication

Date	Text affected
31 March 2016	Implementation of IEC amendment 1:2012 with CENELEC common modifications
31 July 2018	Implementation of IEC amendment 2:2015 with CENELEC common modifications

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English Version

Household and similar electrical appliances — Safety —  
Part 2-89: Particular requirements for commercial  
refrigerating appliances with an incorporated or remote  
refrigerant condensing unit or compressor  
(IEC 60335-2-89:2010)

Appareils électrodomestiques et analogues —  
Sécurité — Partie 2-89: Règles particulières pour  
les appareils de réfrigération à usage commercial  
avec une unité de condensation du fluide frigorigène  
ou un compresseur incorporés ou à distance  
(IEC 60335-2-89:2010)

Sicherheit elektrischer Geräte für den  
Hausgebrauch und ähnliche Zwecke — Teil 2-89:  
Besondere Anforderungen für gewerbliche  
Kühl-/Gefriergeräte mit eingebautem oder  
getrenntem Verflüssigersatz oder Motorverdichter  
(IEC 60335-2-89:2010)

This European Standard was approved by CENELEC on 2010-03-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.



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## European Foreword

The text of document 61C/460/FDIS, future edition 2 of IEC 60335-2-89, prepared by SC 61X of the IEC Technical Committee 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-89 on 2010-03-01.

This European Standard supersedes EN 60335-2-89:2002, EN 60335-2-89:2002/A1:2005, EN 60335-2-89:2002/A2:2007 and EN 60335-2-89:2002/A11:2004.

The principal changes in this edition as compared with EN 60335-2-89:2002 are as follows (minor changes are not listed):

- aligns the text with EN 60335-1, and its Amendments 1, 2, 11, 12 and 13;
- introduces requirements for appliances using transcritical refrigerant systems (3.107, 3.108, 3.109, 3.110, 3.111, 7.1, 7.6, 7.12.1, 22.103, 24.1.4, 24.102);
- introduces an enhanced flexing test (23.3).

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

The following dates were fixed:

- latest date by which the document has to be implemented at national level (dop) 2010-12-01  
by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document (dow) 2013-03-01  
have to be withdrawn

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 electric appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor.

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 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.

#### **Endorsement notice**

The text of the International Standard IEC 60335-2-89:2010/A2:2015 was approved by CENELEC as a European Standard with agreed common modifications.

## Foreword to amendment A1

This document (EN 60335-2-89:2010/A1:2016) consists of the text of IEC 60335-2-89:2010/A1:2012 prepared by SC 61C "Safety of refrigeration appliances for household and commercial use" of IEC/TC 61 "Safety of household and similar electrical appliances", together with the common modifications prepared by CLC/TC 61, "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the document has to be implemented at national level (dop) 2016-08-12  
by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document (dow) 2019-02-12  
have to be withdrawn

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 amendment supplements or modifies the corresponding clauses of [EN 60335-1:2012](#) and EN 60335-2-89:2010.

Clauses, subclauses, notes, tables and annexes which are additional to those in IEC 60335-2-89:2010/A1:2012 or in IEC 60335-1:2010 are prefixed "Z".

For the relationship with EU Directive 2006/42/EC, see informative Annex ZZ, which is an integral part of this document.

### Endorsement notice

The text of the International Standard IEC 60335-2-89:2010/A1:2012 was approved by CENELEC as a European Standard with agreed common modifications.