

AS/NZS 60335.2.89:2010
IEC 60335-2-89 Ed 2.1
(IEC TEXT)
(Incorporating Amendment No. 1)

AS/NZS 60335.2.89:2010

Australian/New Zealand Standard™

**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**



AS/NZS 60335.2.89:2010

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 10 September 2010 and on behalf of the Council of Standards New Zealand on 10 September 2010.

This Standard was published on 29 October 2010.

The following are represented on Committee EL-002:

Australian Industry Group
Australian Retailers Association
Business New Zealand
Consumer Electronic Suppliers Association, Australia
Consumers' Federation of Australia
Electrical Regulatory Authorities, Australia
Electrical Compliance Testing Association
Electrical consultants
Engineers Australia
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This Standard was issued in draft form for comment as DR 10905.

Australian/New Zealand Standard™

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

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

AS/NZS 60335.2.89:2010

**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**

Foreword

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-002- Safety of Household and Similar Electrical Appliances and Small Power Transformers to supersede AS/NZS 60335.2.89:2002 three years from the date of publication. During this period it is anticipated that regulatory authorities will approve commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor to either standard.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with safety requirements designed to give the user protection against hazards that might occur during normal operation and abnormal operation of the appliance and which may be used as the basis for approval for sale or for connection to the electricity supply mains in Australia and New Zealand

The text of IEC 60335-2-89 Ed 2, prepared by IEC Technical Committee SC 61C, was submitted to the Standards Australia/Standards New Zealand Combined Procedure (dual public comment and committee vote) for adoption of the IEC standard as a Standards Australia/Standards New Zealand joint standard.

A1 | The text of IEC 60335-2-89 Ed 2 amendment 1, prepared by IEC Technical Committee SC 61C, was submitted to the Standards Australia/Standards New Zealand Combine Procedure (dual public comment and committee vote) for adoption as an amendment to the Standards Australia/Standards New Zealand joint standard AS/NZS 60335.2.89:2010.

This Standard incorporates its Amendment No. 1 (June 2013). The changes required by the amendment are indicated in the text by a marginal bar and amendment number against the part affected. The application date of the changes introduced by Amendment 1 is 20 June 2015. Up until this date it is anticipated that regulatory authorities will approve commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor to AS/NZS 60335.2.89:2010 or AS/NZS 60335.2.89:2010 + A1:2013.

A1 | This Standard is an adoption with national modifications of the second edition of IEC 60335-2-89, *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* including its amendment 1 (2012). It has been varied as indicated to take account of Australian and New Zealand conditions.

This part 2 has to be used in conjunction with the latest edition of AS/NZS 60335.1 *Household and similar electrical appliances – Safety – Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 60335.1:2002.

The principal changes in this edition as compared with the 2002 edition of AS/NZS 60335.2.89 are as follows (minor changes are not listed):

- aligns the text with IEC 60335-1, and its Amendments 1 and 2;

- 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, 24.101)
- introduces an enhanced flexing test (23.3)

This part 2 supplements or modifies the corresponding clauses of AS/NZS 60335.1 so as to convert it into the Australian/New Zealand Standard: Safety 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 letters AZ.

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.

p NOTE 3 In this document, p is used in the margin to indicate instructions for preparing a consolidated version.

The essential safety requirements in AS/NZS 3820¹ that could be applicable to requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor are covered by this standard.

A1 | The national variations to IEC 60335-2-89 Ed 2.1 form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of results of testing to standards for safety of electrical equipment (the CB scheme).

¹ AS/NZS 3820 *Essential safety requirements for low voltage electrical equipment*

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