

AS/NZS 3350.2.40:1997
IEC 335-2-40:1995

Australian/New Zealand Standard[®]

**Safety of household and similar
electrical appliances**

**Part 2.40: Particular requirements—
Electrical heat pumps,
air-conditioners and dehumidifiers**

[IEC title: Safety of household and similar electrical appliances,
Part 2: Particular requirements for electrical heat pumps, air-
conditioners and dehumidifiers]

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 24 December 1996 and on behalf of the Council of Standards New Zealand on 20 December 1996. It was published on 5 March 1997.

The following interests are represented on Committee EL/2:

Association of Certification Bodies
Association of New Zealand Electrical Appliance Distributors
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Consumer Electronics Supplies Association, Australia
Electrical regulatory authorities
Electricity Supply Association of Australia
Electrical test laboratories
Institution of Engineers Australia
Metal Trades Industry Association of Australia
Ministry of Commerce (Energy Inspection), New Zealand
New Zealand Manufacturers Federation

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Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/2, Electrical Approvals Standards, to supersede AS/NZS 3179:1993, *Approval and test specification—Refrigerated room air-conditioners*, 2 years from publication. During this period it is anticipated that regulatory authorities will approve appliances to either Standard.

The objective of this Standard is to provide manufacturers and regulatory bodies with minimum safety requirements, designed to give 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 supply in Australia and New Zealand.

This Standard forms the first edition of AS/NZS 3350.2.40, *Safety of household and similar electrical appliances, Part 2.40: Particular requirements—Electrical heat pumps, air-conditioners and dehumidifiers*.

This Standard is technically equivalent to and reproduced from the third edition of IEC 335-2-40:1995, *Safety of household and similar electrical appliances, Part 2.40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers*. It is to be used in conjunction with the latest edition of AS/NZS 3350.1, *Safety of household and similar electrical appliances, Part 1: General requirements* and its Amendments. It was established on the basis of AS/NZS 3350.1:1994.

This Standard (Part 2) supplements or modifies the corresponding clauses in AS/NZS 3350.1 (referred to as Part 1 in this Part 2) so as to convert it into the Joint Australian/New Zealand Standard for the safety of electrical heat pumps, air-conditioners and dehumidifiers.

Where a particular clause of Part 1 is not mentioned in this Part 2, that clause applies as far as is reasonable. Where this Standard states ‘addition’ or ‘modification’ or ‘replacement’, the relevant text of Part 1 is to be adapted accordingly.

In this Standard the following print types are used:

- Requirements: in roman type
- *Test specifications: in italic type*
- Notes: in small roman type

Words in **bold** are defined in Clause 2. Where a definition of Part 1 contains an adjective, the adjective and associated noun are **bold** in this Part 2.

Clauses, subclauses, notes, tables and figures which are additional to those in Part 1 are numbered starting from 101. Annexes which are additional to those in Part 1 are lettered AA, BB and so on.

A number of variations have been made in this Standard to the requirements of IEC 335-2-40:1995. These variations are necessary to take into account specific national circumstances such as climate and supply characteristics that affect the safety of electrical appliances used in both Australia and New Zealand. These variations are indicated throughout this Standard by a marginal bar located adjacent to the varied text or figure. Descriptions of these variations are to be found in Annex ZZ of this Standard.

These variations also form the Australian and New Zealand national variations for purposes of the IECEE scheme for recognition of testing to standards for safety of electrical equipment (the CB Scheme).

The term ‘normative’ has been used in this Standard to define the application of the annex to which it applies. A ‘normative’ annex is an integral part of a Standard.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 335-2-40:1995. To allow for the introduction of additional material by the IEC, the numbers 101 to 200 have been reserved.

To allow for additional material to be introduced by Australia and New Zealand, the numbers 201 to 300 are used to number further clauses, subclauses, notes, tables and figures in Part 1 and the numbers 301 to 400 are used to number further clauses, subclauses, notes, tables and figures in this Part 2. Additional annexes are lettered ZA, ZB and so on. This scheme has been introduced to reduce the likelihood of the IEC and Australia and New Zealand using the same identifier for different purposes.

As this Standard is reproduced from an international Standard the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'this International Standard' should read 'this Australian/New Zealand Standard'.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by equivalent Australian or Joint Australian/New Zealand Standards as follows:

NOTE: Where no relevant New Zealand Standard is listed, the referenced Australian Standard is deemed to be appropriate for the purpose of this Standard.

<i>Reference to international Standard or other publication</i>	<i>Australian or Australian/New Zealand Standard</i>
IEC	AS/NZS
65 Safety requirements for mains operated electronic and related apparatus for household and similar general use	3250 Approval and test specification—Mains operated electronic and related equipment for household and similar general use
127 Miniature fuses	—
245 Rubber insulated cables of rated voltages up to and including 480/750 V	3191 Approval and test specification—Electric flexible cords
	AS
529 Degrees of protection provided by enclosures (IP Code)	1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)
335 Safety of household and similar electrical appliances	3300/NZS 6300 Approval and test specification—General requirements for household and similar electrical appliances
335-1 Part 1: General requirements	
335-2-21 Part 2: Particular requirements for storage water heaters	3142 Approval and test specification—Electric water heaters
335-2-34 Part 2: Particular requirements for motor-compressors	3305 Approval and test specification—Particular requirements for motor compressors

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