

Australian/New Zealand Standard™

**Safety of household and similar
electrical appliances**

**Part 2.15: Particular requirements for
appliances for heating liquids
(IEC 60335-2-15:1995)**



AS/NZS 3350.2.15:2002

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 22 April 2002 and on behalf of the Council of Standards New Zealand on 21 March 2002.

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The following are represented on Committee EL-002:

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association New Zealand
Consumer Electronic Suppliers Association, Australia
Electrical regulatory authorities, Australia
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This Standard was issued in draft form for comment as DR 01967.

Australian/New Zealand Standard™

Safety of household and similar electrical appliances

Part 2.15: Particular requirements for appliances for heating liquids (IEC 60335-2-15:1995)

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CONTENTS

PREFACE	3
1 Scope	5
2 Definitions	6
3 General requirement.....	7
4 General conditions for the tests	7
5 Void	8
6 Classification.....	8
7 Marking and instructions	8
8 Protection against access to live parts	10
9 Starting of motor-operated appliances.....	10
10 Power input and current.....	10
11 Heating	10
12 Void	12
13 Leakage current and electric strength at operating temperature	12
14 Void	12
15 Moisture resistance	12
16 Leakage current and electric strength	13
17 Overload protection of transformers and associated circuits	13
18 Endurance.....	13
19 Abnormal operation	13
20 Stability and mechanical hazards.....	15
21 Mechanical strength	15
22 Construction.....	15
23 Internal wiring.....	18
24 Components.....	18
25 Supply connection and external flexible cords	19
26 Terminals for external conductors	19
27 Provision for earthing.....	19
28 Screws and connections	20
29 Creepage distances, clearances and distances through insulation	20
30 Resistance to heat, fire and tracking	20
31 Resistance to rusting	20
32 Radiation, toxicity and similar hazards	20
Annexes	21
Annex C (normative) Ageing test on motors.....	21
Annex ZZ (informative) Variations to IEC 60335-2-15:1995 for application in Australia and New Zealand.....	22

PREFACE

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 3350.2.15:1997 and its amendment 1 (1997), amendment 2 (1999) amendment 3 (2001) and amendment 4 (2001) on publication.

This Standard incorporates Amendment No. 1 (November 2003), Amendment No. 2 (December 2003) and Amendment No. 3 (May 2007). The changes required by the amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected. Where an application date other than immediate is applicable to an amendment the date of application (DOA) is indicated by the marginal bar against the part affected or by a footnote relating to the part affected.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations 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 the electricity supply mains in Australia and New Zealand.

This Standard was revised to incorporate Amendment Nos. 1, 2, 3 and 4 and to effect changes to clause 15.2 and Annex ZZ that were issued in draft form for comment as document DR 01967. It forms the second edition of AS/NZS 3350.2.15 *Safety of household and similar electrical appliances, Part 2.15: Particular requirements for appliances for heating liquids*.

This Standard is an adoption with national modifications and contains the full text of the fourth edition of IEC 60335-2-15:1995, *Safety of household and similar electrical appliances, Part 2-15: Particular requirements for appliances for heating liquids* including its amendments 1 and 2 and has been varied as indicated to take account of Australian and New Zealand conditions. 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 3350.1:2002.

This part 2 supplements or modifies the corresponding clauses of AS/NZS 3350.1 (referred to as part 1 in this part 2) so as to convert it into the Australian/New Zealand Standard: Safety of appliances for heating liquids.

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

NOTE 1 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, etc.

NOTE 2 In this Standard the following print types are used:

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

Words **in bold** in the text are defined in clause 2. When a definition of part 1 concerns an adjective, the adjective and the associated noun are also in bold.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60335-2-15:1995. 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. 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.

The use of the word VOID indicates that the IEC text is not used in Australia or New Zealand. The use of this word also avoids the need to renumber, clauses, notes, tables and figure if an earlier clause, note, table or figure is not used.

Annex A has been reformatted to indicate the Australia/New Zealand standard that is equivalent to the IEC standard or ISO standard to which normative reference is made.

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 on the cover and title page only.
- (b) In the source text "this International Standard" should read "this Australian/New Zealand Standard".

A full point substitutes for a comma when referring to a decimal marker.

Variations to IEC 60335-2-15:1995 are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies IEC tables, figures and passages of text which, for the purposes of this Australian/New Zealand standard are deleted. Where Australian/New Zealand tables, figures or passages of text are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.

Variations made to IEC 60335-2-15:1995 form the Australian variations for the purposes of the IECEE scheme for recognition of testing to standards for safety of electrical equipment (the CB scheme). These variations have been incorporated in the body of the standard. They are listed in Annex ZZ for easy reference.

AUSTRALIA/NEW ZEALAND STANDARD
SAFETY OF HOUSEHOLD AND SIMILAR
ELECTRICAL APPLIANCES –

Part 2.15: Particular requirements for appliances
for heating liquids
(IEC 60335-2-15:1995, MOD)

1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of electrical appliances for heating liquids for household and similar purposes, their **rated voltage** being not more than 250 V.

NOTE 1 Some appliances may be used for heating food.

NOTE 2 Examples of appliances which are within the scope of this standard are:

- kettles and other appliances for boiling water, having a **rated capacity** not exceeding 10 l;
- coffee-makers;
- egg boilers;
- milk heaters;
- **feeding bottle heaters**;
- pressure cookers having a **rated cooking pressure** not exceeding 140 kPa and a **rated capacity** not exceeding 10 l;
- cooking pans;
- slow cookers;
- yoghurt-makers;
- **steam cookers**;
- wash boilers.

Appliances not intended for normal household use but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

NOTE 3 Examples of such appliances are:

- livestock feed boilers;
- sterilizers;
- glue pots with a water jacket.

So far as is practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home.

This standard does not in general take into account:

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliance by young children.