

Australian/New Zealand Standard™

Safety of household and similar electrical appliances

Part 2.24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers (IEC 60335-2-24:2000, MOD)



AS/NZS 3350.2.24:2001

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 7 February 2001 and on behalf of the Council of Standards New Zealand on 2 February 2001.

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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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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 3350.2.24:1998 and its amendment 1 (1999) and amendment 2 (2001) on publication.

This Standard incorporates Amendment No. 1 (May 2007). The changes required by the amendment 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 forms the second edition of AS/NZS 3350.2.24 *Safety of household and similar electrical appliances, Part 2.24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers*

This Standard is an adoption with national modifications and contains the full text of the fifth edition of IEC 60335-2-24:2000, *Safety of household and similar electrical appliances, Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers* including Corrigendum 1 (2001) 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 refrigerating appliances, ice-cream appliances and ice-makers

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.

Annex AA forms an integral part of this standard.

Annex BB and ZZ are for information only.

Annex ZA forms an integral part of this standard.

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.

↓ This statement is deleted from the standard 2 years from publication.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60335-2-24:2000. 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 60335-2-24:2000 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 60335-2-24:2000 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.

CONTENTS

Clause	Page
1 Scope	6
2 Definitions	7
3 General requirement	9
4 General conditions for the tests	9
5 Void	11
6 Classification	11
7 Marking and instructions	11
8 Protection against access to live parts	14
9 Starting of motor-operated appliances	14
10 Power input and current	14
11 Heating	15
12 Void	18
13 Leakage current and electric strength at operating temperature	18
14 Void	19
15 Moisture resistance	19
16 Leakage current and electric strength	20
17 Overload protection of transformers and associated circuits	20
18 Endurance	20
19 Abnormal operation	21
20 Stability and mechanical hazards	23
21 Mechanical strength	25
22 Construction	25
23 Internal wiring	33
24 Components	33
25 Supply connection and external flexible cords	34
26 Terminals for external conductors	35
27 Provision for earthing	35
28 Screws and connections	35
29 Creepage distances, clearances and distances through insulation	36
30 Resistance to heat, fire and tracking	36
31 Resistance to rusting	37
32 Radiation, toxicity and similar hazards	37

Figures

Figure 101 – Apparatus for spillage test	38
Figure 102 – Detail of scratching tool tip.....	39
Figure AA.1 – Supply circuit for locked-rotor test of a single-phase fan motor.....	43
Figure BB.1 – Diagram of apparatus for water evaporation for accumulation of frost.....	45
Figure BB.2 – Apparatus for water evaporation and for accumulation of frost	46

Annexes

Annex A (normative) Normative references.....	40
Annex C (normative) Ageing test on motors.....	41
Annex D (normative) Alternative requirements for protected motor units.....	41
Annex AA (normative) Locked-rotor test of fan motors	42
Annex BB (informative) Method for accumulation of frost	44
Annex ZA (normative) Stability and mechanical hazards	47
Annex ZZ (informative) Variations to IEC 60335-2-24:2000 for application in Australia and New Zealand	48

Tables

Table 101 – Maximum temperatures for motor-compressors	17
Table 102 – Refrigerant flammability parameters	31

AUSTRALIA/NEW ZEALAND STANDARD

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –

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Any IEC table, figure or passage of text that is struckthrough is not part of this standard. Any Australian/New Zealand table, figure or passage of text is added (and identified by shading) is part of this standard.

1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of the following appliances, their **rated voltage** being not more than 250 V for single-phase appliances, 480 V for other appliances and 24 V d.c. for appliances when battery operated.

- **refrigerating appliances** for household and similar use;
- **ice-makers** incorporating a motor-compressor and **ice-makers** intended to be incorporated in frozen food storage compartments;
- **refrigerating appliances** and **ice-makers** for use in camping, touring caravans and boats for leisure purposes.

These appliances may be operated from the mains, from a separate battery or operated either from the mains or from a separate battery.

This standard also deals with the safety of **ice-cream appliances** intended for household use, their **rated voltage** being not more than 250 V for single-phase appliances and 480 V for other appliances.

It also deals with **compression-type appliances** for household and similar use, which use **flammable refrigerants**.

This standard does not cover features of the construction and operation of those **refrigerating appliances** which are dealt with in ISO standards.

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.

As 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.

NOTE 1 Attention is drawn to the fact that

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- in many countries additional requirements are specified by national health authorities, the national authorities responsible for the protection of labour and the national authorities responsible for transportation.