

AS/NZS 60335.2.2:2020
(Incorporating Amendment No. 1)



Australian/New Zealand Standard™

Household and similar electrical appliances — Safety

Part 2.2: Particular requirements for vacuum cleaners and water-suction cleaning appliances (IEC 60335-2-2 Ed 7, MOD)



AS/NZS 60335.2.2:2020

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 and Power Supplies. It was approved on behalf of the Council of Standards Australia on 17 June 2020 and by the New Zealand Standards Approval Board on 3 June 2020.

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The following are represented on Committee EL-002:

- Association of Accredited Certification Bodies
- Australian Industry Group
- Australian Retailers Association
- Better Regulation Division (Fair Trading, Safework NSW, TestSafe)
- Business New Zealand
- Consumer Electronic Suppliers Association, Australia
- Consumers' Federation of Australia
- Electrical Regulatory Authorities, Australia
- Electrical Consultants
- Engineers Australia
- JAS-ANZ
- National Retailers Association (Australia)
- New Zealand Electric Fence Energizer Manufacturers' Standards Group
- Testing Interests New Zealand
- WorkSafe, New Zealand

This Standard was issued in draft form for comment as DR AS/NZS 60335.2.2:2020.

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Australian/New Zealand Standard™

Household and similar electrical appliances — Safety

Part 2.2: Particular requirements for vacuum cleaners and water-suction cleaning appliances (IEC 60335-2-2 Ed 7, MOD)

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Jointly revised and redesignated as AS/NZS 60335.2.2:2010.
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NOTES

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 60335.2.2:2018 three years from the date of publication of this standard. During this period, AS/NZS 60335.2.2:2018 will also remain current. Regulatory authorities that reference this standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

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 60335-2-2, Ed. 7, prepared by IEC Technical Committee TC 61, 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.

The principal changes in this edition as compared with the 2018 edition of AS/NZS 60335.2.2 are as follows (minor changes are not listed):

- the text has been aligned with the 2011 edition of Part 1;
- some requirements for appliances for animal grooming have been modified (6.1, 25.7)
- the note in 7.101 has been deleted;
- some notes have been converted to normative text (7.102, 10.1, 11.3, 13.1, 15.2, 15.101, 19.101, 20.1, 20.2, 21.103, 21.105, 22.32, 25.23);
- clarification that the test of 19.7 is applicable to vacuum cleaners with a motorized brush or similar device;
- modified Annex R for alignment with 22.201 of Annex B;
- modified Annex S in accordance with IEC 60335-2-2:2009/ISH1:2016;
- requirements for mechanical strength of handles have been added (21.106).

This standard incorporates Amendment No. 1 (June 2023). The changes introduced by the amendments are indicated in the text by a marginal bar and amendment number against the part affected. Where an application date other than immediate is applicable to an amendment, the date of application (DOA) and the date of withdrawal (DOW), if relevant, are indicated by the marginal bar against the part affected.

NOTE – Regulatory authorities that reference this standard in regulation may apply these amendment requirements at a different time. Users of this standard should consult with these authorities to confirm their requirements

This standard is an adoption with national modifications of the seventh edition of IEC 60335-2-2, *Household and similar electrical appliances – Safety – Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances*. 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 60335.1:2011.

This Part 2 supplements or modifies the corresponding clauses of AS/NZS 60335.1 so as to convert it to the Australian/New Zealand standard: Safety requirements for vacuum cleaners and water-suction cleaning appliances.

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 vacuum cleaners and water-suction cleaning appliances are covered by this standard.

The national variations to IEC 60335-2-2, Ed. 7 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).

The text of the International Standard IEC 60335-2-2, Ed. 7 was approved as a joint Australia/New Zealand Standard with the agreed national variations as given below.

AUSTRALIAN NATIONAL VARIATIONS

A1 | The following national variations to this Part 2 are additional to those listed in the national variations in AS/NZS 60335.1:2020.

6 Classification

p 6.1 *Replace the requirement with:*

Vacuum cleaners and **water-suction cleaning appliances** shall be **class I**, **class II** or **class III**.

Vacuum cleaners for animal grooming shall be **class II** or **class III**.

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

7 Marking and Instructions

p 7.1 Add the following:

Vacuum cleaner handles containing electrical connections operating at voltages other than **SELV** and accessories operating at voltages other than **SELV** shall be marked with symbol IEC 60417-5036 and a supplementary safety information text panel which includes a hazard severity panel outlined in ISO 3864-2.

The rules for warning signs in ISO 3864-1 apply to symbol IEC 60417-5036 and the rules for supplementary signs in ISO 3864-1 apply to the words “Danger” and “Live Parts Within”.

p 7.6 Add the following:



p 7.12 Add the following:

The instructions for appliances with vacuum cleaner handles containing electrical connections operating at voltages other than **SELV** and accessories containing voltages other than **SELV** shall include the substance of the following:

CAUTION: The vacuum cleaner {handle or name of accessory} contains electrical connections the {handle or name of accessory} is not a serviceable part.

p 7.14 Add the following:

The severity panel on the vacuum cleaner handle or accessories shall state “Danger”. The supplementary safety information text panel shall state “Live Parts Within”.

The words “DANGER” and “Live Parts Within” shall be in letters not less than 5 mm high. The base of the triangle of IEC 60417-5036 shall be not less than 20 mm.

p 7.102 VOID

19 Abnormal operation

p 19.1 Add the following variation to the addition:

The test of 19.7 is also carried out on **docking stations** of **automatic battery-operated cleaners** incorporating a suction function.

p 19.7 Add the following variation to the addition:

Docking stations of **automatic battery-operated cleaners** incorporating a suction function are operated until steady conditions are reached.

A1
DOA
30/06/25

22 Construction

p Add the following new subclause:

22.301 Vacuum cleaner handles containing electrical connections operating at voltages other than **SELV** and accessories operating at voltages other than **SELV** shall:

- be removable from the vacuum cleaner or its current carrying hose; or
- be constructed so that they are permanently secured by one-way security screws, rivets, or blind clips and cannot be opened without the degradation of the appliance.

Compliance is checked by inspection.

24 Components

p Add the following:

24.1.5 Addition:

Appliance couplers used for supplying **motorized cleaning heads** operating at other than **SELV** shall comply with the requirements of IEC 60320-1 as far as they reasonably apply.

A1
DOA
30/06/25

30 Resistance to heat and fire

p **30.2** Add the following variation to the addition:

For **docking stations of automatic battery-operated cleaners** incorporating a suction function, 30.2.3 is applicable.

A1

NEW ZEALAND NATIONAL VARIATIONS

The following national variations to this Part 2 are additional to those listed in the national variations in AS/NZS 60335.1:2020.

6 Classification

p **6.1** Replace the requirement with:

Vacuum cleaners and **water-suction cleaning appliances** shall be **class I**, **class II** or **class III**.

Vacuum cleaners for animal grooming shall be **class II** or **class III**.

7 Marking and Instructions

p **7.1** Add the following:

Vacuum cleaner handles containing electrical connections operating at voltages other than **SELV** and accessories operating at voltages other than **SELV** shall be marked with symbol IEC 60417-5036 and a supplementary safety information text panel which includes a hazard severity panel outlined in ISO 3864-2.

The rules for warning signs in ISO 3864-1 apply to symbol IEC 60417-5036 and the rules for supplementary signs in ISO 3864-1 apply to the words “Danger” and “Live Parts Within”.

p 7.6 Add the following:



p 7.12 Add the following:

The instructions for appliances with vacuum cleaner handles containing electrical connections operating at voltages other than **SELV** and accessories containing voltages other than **SELV** shall include the substance of the following

CAUTION: The vacuum cleaner {handle or name of accessory} contains electrical connections the {handle or name of accessory} is not a serviceable part.

p 7.14 Add the following:

The severity panel on the vacuum cleaner handle or accessories shall state “Danger”. The supplementary safety information text panel shall state “Live Parts Within”.

The words “DANGER” and “Live Parts Within” shall be in letters not less than 5 mm high. The base of the triangle of IEC 60417-5036 shall be not less than 20 mm.

p 7.102 VOID

A1
DOA
30/06/25

19 Abnormal operation

p 19.1 Add the following variation to the Addition:

The test of 19.7 is also carried out on **docking stations of automatic battery-operated cleaners** incorporating a suction function.

p 19.7 Add the following variation to the Addition:

Docking stations of automatic battery-operated cleaners incorporating a suction function are operated until steady conditions are reached.

22 Construction

p Add the following new subclause.

22.301 Vacuum cleaner handles containing electrical connections operating at voltages other than **SELV** and accessories operating at voltages other than **SELV**, shall:

- be removable from the vacuum cleaner or its current carrying hose; or
- be constructed so that they are permanently secured by one-way security screws, rivets, or blind clips and cannot be opened without the degradation of the appliance.

Compliance is checked by inspection.

24 Components

p Add the following:

24.1.5 Addition:

Appliance couplers used for supplying **motorized cleaning heads** operating at other than **SELV** shall comply with the requirements of IEC 60320-1 as far as they reasonably apply.

A1
DOA
30/06/25

30 Resistance to heat and fire

p 30.2 Add the following variation to the addition:

For **docking stations of automatic battery-operated cleaners** incorporating a suction function, 30.2.3 is applicable.

ANNEX ANZ

(Normative)

Normative references to international publications with their corresponding joint Australia/New Zealand publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE – When an international publication has been modified by national variations, the relevant joint Australia/New Zealand publications apply if the national variations are needed to ensure the safety of the appliance for Australia/New Zealand conditions. These international publications are indicated by (MOD). If an international publication is not so indicated, then either it or the listed Australia/New Zealand publication may be used.

Publication	Year	Title	AS/NZS	Year
IEC 60312-1		<i>Vacuum cleaners for household use – Part 1: Dry vacuum cleaners – Methods for measuring the performance</i>		
IEC 60584-1		<i>Thermocouples – Part 1: EMF specifications and tolerances</i>		
ISO 216		<i>Writing paper and certain classes of printed matter – Trimmed sizes – A and B series, and indication of machine direction</i>		
ISO 6344-2		<i>Coated abrasives – Grain size analysis – Part 2: Determination of grain size distribution of macrogrits P12 to P220</i>		
ISO 7010	2011	<i>Graphical symbols – Safety colours and safety signs – Registered safety signs</i>		
ISO 14688-1		<i>Geotechnical investigation and testing – Identification and classification of soil – Part 1: Identification and description</i>		

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2-2: Particular requirements for vacuum cleaners
and water-suction cleaning appliances**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60335-2-2 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This seventh edition cancels and replaces the sixth edition published in 2009, Amendment 1:2012 and Amendment 2:2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- some requirements for appliances for animal grooming have been modified (6.1, 25.7)
- the note in 7.101 has been deleted;
- converted some notes to normative text (7.102, 10.1, 11.3, 13.1, 15.2, 15.101, 19.101, 20.1, 20.2, 21.103, 21.105, 22.32, 25.23);

- clarification that the test of 19.7 is applicable to vacuum cleaners with a motorized brush or similar device;
- modified Annex R for alignment with 22.201 of Annex B;
- modified Annex S in accordance with IEC 60335-2-2:2009/ISH1:2016;
- requirements for mechanical strength of handles have been added (21.106).

The text of this International Standard is based on the following documents:

FDIS	Report on voting
61/5790/FDIS	61/5807/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60335 series, under the general title: *Household and similar electrical appliances – Safety*, can be found on the IEC website.

This Part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the fifth edition (2010) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This Part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Safety requirements for vacuum cleaners and water-suction cleaning appliances.

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- *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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.