

Australian/New Zealand Standard™

**Safety of household and similar
electrical appliances**

**Part 2.79: Particular requirements for
high pressure cleaners and steam
cleaners, for industrial and commercial
use
(IEC 60335-2-79:1995, MOD)**



AS/NZS 3350.2.79:2001

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 2 October 2001 and on behalf of the Council of Standards New Zealand on 12 October 2001.

This Standard was published on 12 November 2001.

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 01928.

Australian/New Zealand Standard™

Safety of household and similar electrical appliances

Part 2.79: Particular requirements for high pressure cleaners and steam cleaners, for industrial and commercial use (IEC 60335-2-79:1995, MOD)

Originated as AS/NZS 3350.2.79:1996.
Second edition AS/NZS 3350.2.79:2001.
Reissued incorporating Amendment No. 1 (May 2007).

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

CONTENTS

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

Annexes	28
Annex A (normative) Normative references.....	28
Annex ZZ (informative) Variations to IEC 60335-2-79:1995 for application in Australia and New Zealand.....	29
Figures.....	25
Figure 101 – Warning symbol.....	25
Figure 102 – Impact test apparatus	26
Figure 103 – Reactions on handles	27

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 3350.2.79:1996 and its Amendment 1 (1998) 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 was revised to incorporate Amendment No. 1 and to effect changes to Clauses 2, 7.12.1, 8.1, 22.103, 22.105, 22.106, 22.107 and 25.7, and Annex ZZ that were issued in draft form for comment as document DR 01928. It forms the second edition of AS/NZS 3350.2.79 *Safety of household and similar electrical appliances, Part 2.79: Particular requirements for high pressure cleaners and steam cleaners, for industrial and commercial use.*

This Standard is an adoption with national modifications and contains the full text of the first edition of IEC 60335-2-79:1995, *Safety of household and similar electrical appliances, Part 2-79: Particular requirements for high pressure cleaners and steam cleaners, for industrial and commercial use* including its amendment 1 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 high pressure cleaners and steam cleaners, for industrial and commercial use.

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 60335-2-79:1995. 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 60335-2-79:1995 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 60335-2-79:1995 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 2.79: Particular requirements for
high pressure cleaners and steam cleaners,
for industrial and commercial use
(IEC 60335-2-79:1995, MOD)**

1 Scope

This clause of part 1 is applicable except as follows:

Addition:

This standard applies to high pressure cleaners having a pressure not less than 25 bars and not more than 250 bars with an input to the drive for the high pressure pump not exceeding 10 kW. It also applies to steam cleaners having a usable volume of the water container equal to or greater than 1,5 litres even if the pressure is less than 25 bars.

This standard also applies to **fixed appliances** within the limits of the previous paragraph.

It is also applicable to appliances making use of other forms of energy for the motor; but it is necessary that their influence is taken into consideration.

Modification:

Replace the first two dashed paragraphs of note 3 by:

- appliances that are incorporated in process equipment;
- appliances intended to be used in locations where special conditions prevail, such as the presence of corrosive or explosive atmosphere (vapour or gas).

2 Definitions

This clause of part 1 is applicable except as follows:

2.2.9 Replacement:

normal operation

the appliance is supplied at **rated voltage** and operated at **rated flow** and **rated pressure** with the nozzle and hose specified by the manufacturer fitted to it; all strainers and filters are in a clean operating condition and the **unloader valve** is set to the **rated pressure**. The **water heater**, if fitted, is operated at maximum power

2.101

unloader valve

pressure operated valve which, when the pump pressure exceeds the preset value, returns the excess fluid to the inlet system. In addition it bypasses the total pump flow at reduced pressure when its outlet flow is cut off