

COMMITTEE: EL-002

Safety of Household and Similar Electrical Appliances and Small Power Transformers

DR 25043 CP

DRAFT

COMBINED POSTAL BALLOT/ AUSTRALIAN / NEW ZEALAND STANDARD FOR COMMENT

LIABLE TO ALTERATION DO NOT USE AS A STANDARD

DATE OF ISSUE: 22 April 2025
CLOSING DATE FOR COMMENT: 17 June 2025

DR 25043 CP

**Amendment No. 1
to
AS/NZS 60335.2.21:2023**

**Household and similar electrical appliances – Safety
Part 2.21: Particular requirements for storage water
heaters**



**COMBINED DRAFT FOR COMMENT/POSTAL BALLOT
STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**

Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers

**DRAFT
Australian/New Zealand Standard**

**Household and similar electrical appliances – Safety
Part 2.21: Particular requirements for storage water heaters**

Please note that this document is currently being voted on by the committee and the results of the postal ballot will be contingent on public comment received.

Comment on the proposal is invited from persons and organisations concerned with this subject.

Attention is drawn to the fact that this document is a draft only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia and Standards New Zealand.

NOTE: Only the yellow highlighted text forms the text for balloting and commenting. The other text has already been approved and is there for information only.

NOTE: The blue highlighted text includes the action required to amend clause 1 as detailed in the SUMMARY in the original CP document, DR 24045 CP. It is there for information only.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1

to

AS/NZS 60335.2.21:2023

Household and similar electrical appliances – Safety

Part 2.21: Particular requirements for storage water heaters

REVISED TEXT

The 2023 edition of AS/NZS 60335.2.21 is amended as follows:

Summary: This amendment applies to **committee representation**, the foreword, **national variations to** clause 1, subclause 7.12.1, **subclause 27.1**, and Annex AA.

Published on xx xxx 202x.

Approved for publication in Australia on behalf of the Council of Standards Australia's Standards Development and Accreditation Committee on xxxxxx.

Approved for publication in New Zealand by the New Zealand Standards Approval Board on xxxxxxx.

The text in this amendment, **except the national variation to 27.1**, takes effect from the date of publication of this amendment. **The text in this amendment for the national variation to 27.1 takes effect 2 years from the date of publication of this amendment.** Regulatory authorities that reference this standard in regulation may apply these requirements at a different time. Users of this standard should consult these authorities to confirm their requirements.

COMMITTEE REPRESENTATION

Replace: Better Regulation Division (Fair Trading, Safework NSW, TestSafe) *with* Building Commission NSW.

Replace: Testing Interests New Zealand *with* International Accreditation New Zealand.

FOREWORD

Add the following as a new fifth paragraph:

This standard incorporates Amendment No. 1 (xy wxyz 202x). 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 these authorities to confirm their requirements.

NATIONAL VARIATIONS

Modify the Australian and New Zealand national variations as follows:

1 Scope

Delete the variation.

7 Marking and instructions

- p 7.12.1 Add to the Addition, as a new paragraph, the following variation:

The instructions for **heat exchange closed water heaters** that can be retrofitted with **immersion heater units**, shall state the models of **immersion heater units** that can be retrofitted.

27 Provision for earthing

- p 27.1 Replace the Addition with the following variation:

27.1 Replacement:

For class I water heaters,

- the sheath of the heating element; and
- **accessible metal parts**, including metal parts behind a decorative cover that does not withstand the test of 21.1;

shall be permanently and reliably connected to an earthing terminal within the appliance.

Earthing terminals and earthing contacts shall not be connected to the neutral terminal.

Class II water heaters and **class III water heaters** shall have no provision for protective earthing.

Safety extra-low voltage circuits shall not be earthed unless they are **protective extra-low voltage circuits**.

Compliance is checked by inspection.

Annex AA

- p AA.5.AZ101 Add after 5.3 the following variation:

AA.5.AZ101 For **immersion heater units** intended to be retrofitted in a **heat exchange closed water heater**, the tests shall be carried out using each of the models and name, trademark or identification mark of the manufacturer or responsible vendor of the **heat exchange closed water heaters** listed in the instructions of the manufacturer of the **immersion heater unit**.

- p 7.12.1 Add to the Replacement, as a new paragraph, the following variation:

The instructions for **immersion heater units** intended to be retrofitted in a **heat exchange closed water heater** shall state the models and name, trademark or identification mark of the manufacturer or responsible vendor of the **heat exchange closed water heaters** in which the **immersion heater unit** can be retrofitted.