

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 2
to
AS/NZS 4692.1:2005
Electric water heaters
Part 1: Energy consumption, performance and general requirements

REVISED TEXT

The 2005 edition of AS/NZS 4692.1 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Standard title, Preface, Clauses 1.3, 2.3.2 and 2.9, and Appendices A, B, C and J.

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Standard title

On the front cover, title page and page 5, *delete* the part title and *replace* with the following:

Part 1: Energy consumption, performance and general requirements

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Preface

Delete the paragraph commencing ‘The revised AS/NZS 4692 Standard . . .’ and *replace* with the following:

This Standard also covers requirements for heat exchange water heaters that were previously covered by AS 1361. If the government introduces MEPS levels for chilled and boiling water dispensers, test methods will be developed as a separate part to this Standard.

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Clause 1.3

Add the following referenced documents:

DIN

4753-6 Water heating installations for drinking water and service water – Part 6: Cathodic corrosion protection of enamelled steel containers; Requirements and testing

4753-3 Water heaters, water heating installations and storage water heaters for drinking water – Part 3: Corrosion protection on the water side by enamelling and cathodic protection—Requirements and testing

Clause 2.3.2

Delete the Clause and *replace* with the following:

2.3.2 Sacrificial anodes

Where the design of the water heater requires a sacrificial anode, the anode shall be suitable for its intended use, have a steel core, comply with AS 2239, and specify M1, M2 or A5 alloys. The following requirements apply:

- (a) At least one sacrificial anode shall be provided in composite shells lined with vitreous enamel.
- (b) Anodes shall be steel cored magnesium or other suitable material having a total mass of active material of not less than 270 g/m^2 of container surface area.
- (c) Anodes shall be replaceable and shall be in electrical contact with the container.
- (d) One of the following:
 - (i) For water heaters with inwardly curving dome ends, the anode shall extend to within 100 mm of the nearest point of the remotest dome. For water heaters with outwardly curving dome ends, the anode shall extend to within $D/2$ (where D is the internal diameter of the vessel) of any material, component or point (e.g. a weld seam) that requires cathodic protection.
 - (ii) The arrangement of anodes inside the container shall be such that adequate electrical potential is achieved for all vitreous enamelled steel surfaces of the water heater in contact with drinking water. Water heaters are deemed to comply with this requirement if compliant with Clause 3.4 of DIN 4753-6 (1986-02) or Clause 4.4.4 of DIN 4753-3 (2011-11).

Clause 2.9

- 1 *Delete* Note 1.
- 2 *Renumber* Note 2 as Note 1 and Note 3 as Note 2.

Appendix A, Table A1

Under the reference to Section 3, Clause 3.3.2, *delete* 'temerpature' and *replace* with 'temperature'.

Appendix B, Paragraph B3.1

Add the following text after the first paragraph:

Where the level of the stored water cannot be determined, the internal volume of the container shall be divided equally as above.

If the centroid position for the location of one or more of the six sensors cannot be readily achieved, all sensors shall be located with the same horizontal displacement as close as possible to the centroid positions.

Appendix B, Paragraph B3.4

Insert the following new text after the first paragraph:

Where the water heater is supplied with a tempering valve fitted to the hot water outlet, this valve and any associated plumbing shall be removed for the purposes of testing.