

STANDARDS AUSTRALIA

Amendment No. 1 (2005)
to
AS 1361—1995
Electric heat-exchange water heaters—For domestic applications

REVISED TEXT

The 1995 edition of AS 1361 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to the Preface, Table 2.1, Appendices B and C.

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Page 2 Preface

Add the following after the third paragraph:

This Standard has been amended to incorporate key changes that will improve the accuracy of the existing methods of test for MEPS heat loss testing to acceptable levels.

AS/NZS 4692.1, *Electric water heaters*, Part 1: *Energy consumption, performance and general requirements*, sets out a new test method for MEPS heat loss testing.

This amended Standard will remain current until confidence and experience have been gained with AS/NZS 4692.1, after which time it will be superseded by AS/NZS 4692.1 and AS/NZS 4692.2, *Electric water heaters*, Part 2: *Minimum Energy Performance Standards (MEPS) requirements and energy labelling*.

The new regulatory Standard AS/NZS 4692.2 will allow testing to either the amended AS 1056.1, *Storage water heaters*, Part 1: *General requirements* or AS 1361, *Electric heat-exchange water heaters—For domestic applications*, as applicable, or to AS/NZS 4692.1. MEPS levels, as defined under each test method, are provided in AS/NZS 4692.2. The key elements included in Amendment 1 are as follows:

- Energy correction at the thermostat cut-out.
- Shielding of the water heater from other objects under test that have a temperature difference of greater than 5 K.
- Mounting the water heater on a wooden platform when testing. A cement sheet is also an acceptable mounting.
- 24 h stabilization plus 48 h test period.
- Product specification to be supplied with the test report.
- Frequency of sampling for air and water temperature measurements to be reduced to an acceptable period (5 min or less).

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Page 7 Table 2.1, Note

Change existing Note to read as Note No. 1 and *add* the following new Note No. 2:

- ‘2 See AS/NZS 4692.2 for details of revised heat loss requirements for various water heater types, to come into force from 1 October 2005.’

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Page 13 Appendix B, Paragraph B5(f)

Delete '5' and replace with '0.1'.

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Page 15 Appendix C, Paragraph C2

In the second line, *delete* '24' and *replace* with '48'.

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Page 15 Appendix C, Paragraph C4

Delete heading and *replace* with 'SET-UP'.

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Page 15 Appendix C, Paragraph C4.1

Add the following paragraphs at the end of Paragraph C4.1:

'The water heater shall be mounted on a platform of compressed fibre cement or particleboard, medium density fibreboard, plywood or equivalent timber of 20 mm to 30 mm thickness, with the top of the platform not less than 300 mm above the floor. The underside of the platform shall be predominantly open to allow circulation of air.

Where the temperature difference between any test room equipment and the test room ambient temperature is greater than 5 K, the appliance under test shall be shielded against direct radiation from the relevant equipment. The water heater shall be shielded from radiation from any other water heaters under test which are closer than 6 m.

NOTE: Radiation from fluorescent lamps may generally be ignored.'

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Page 15 Paragraph C4.2

Delete the last sentence and *replace* with the following:

'The average air temperature for any specified test shall be the average of the recorded readings taken at equal intervals of 5 min or less during the test period.'

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Page 16 Paragraph C5

- 1 Item (f), *delete* '24' and *replace* with '48'.
 - 2 Item (h)(i) and (ii), *delete* '2 h' and *replace* with '5 min.'
 - 3 New Item (h)(v), *add* new Item (v), as follows:
 - (v) The hot water temperature at the thermostat cut-out at the beginning and end of the test period when averaged for a period of 5 min, commencing 3 min after the thermostat has cut out.
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