

STANDARDS AUSTRALIA

Amendment No. 5
to
AS 1056.1—1991
Storage water heaters
Part 1: General requirements

REVISED TEXT

The 1991 edition of AS 1056.1 is amended as follows; the amendment(s) should be inserted in the appropriate place(s).

SUMMARY: This Amendment applies to the Preface, Clause 6.1, Appendices B, C and D and Table 2.1.

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Page 2 Preface

Add the following additional text at the end of the Preface:

The amendment to this Standard includes 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 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will remain current until confidence and experience have been gained with AS/NZS 4692.1, after which time it will be superseded by AS/NZS 4692.1 and AS/NZS 4692.2.

The new regulatory Standard AS/NZS 4692.2 will allow testing to either the amended AS/NZS 1056.1 or AS/NZS 1361, 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 5 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 10 Table 2.1, NOTES

Add new Note 3 as follows:

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

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Page 16 Clause 5.1.1(e)

Delete reference to Clause 3.2.3 and *replace* with '3.2.2'.

Page 17 Clause 6.1

Delete existing Clause 6.1 and replace with the following:

6.1 TYPE TESTS**6.1.1 General**

Compliance with this Standard shall be determined by means of type tests as specified in Table 6.1, Column 3.

NOTES:

- 1 A water heater that is to be type tested should be fully identified in accordance with the format suggested in Appendix D.
- 2 In the case of an unvented water heater, two units are required for type testing because of the restriction in Clause 2.8.

6.1.2 Product documentation

A product specification of the unit tested shall be supplied with documentation on type or routine tests.

NOTE: See Appendix D for guidelines for written product specifications.

Page 19 Appendix B, Paragraph B2

In the first line *delete* 'approximately 24 h' and *replace* with 'not less than 48 h'.

Page 19 Appendix B, Paragraph B4.1

- 1 *Delete* heading 'Insulation of fittings' and *replace* with 'Set-up'
- 2 *Add* the following new paragraphs:

'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 that are closer than 6 m.

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

Page 19 Appendix B, Paragraph B4.2

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.'

Page 19 Appendix B, Paragraph B4.4

In line 7, *delete* the reference to '5.1.1 (d)' and *replace* with '5.1.1 (e)'

Page 19 Appendix B, Paragraph B5(d)

Delete '24' and *replace* with '48'.
