

Superseded by AS/NZS 3103:1993

Amendment 1 - January 1991
" 2 - March 1992
" 3 - October 1992
" 4 - June 1993

AS 3103—1990

Australian Standard®

Approval and test certification—
Electric room heaters

EE



This Australian Standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 16 March 1990 and published on 16 July 1990.

The following interests are represented on Committee EL/2:

Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Electrical Apparatus Approvals Authorities
Electrical Testing Laboratories
Electricity Supply Association of Australia
Institution of Engineers, Australia

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STANDARDS AUSTRALIA

Amendment No 1
to
AS 3103—1990
Approval and test specification—
Electric room heaters

REVISED TEXT

The 1990 edition of AS 3103 is amended as follows. The amendment(s) should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 1.8, 3.5.4.3, 3.5.5.1, 3.5.11 and Table 3.1.

Published on 25 January 1991.

STANDARDS AUSTRALIA

Amendment No. 2
to
AS 3103—1990
Approval and test specification—Electric room heaters

REVISED TEXT



The 1990 edition of AS 3103 is amended as follows: the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to the Preface, Clauses 1.3, 2.7, 3.5.1, 3.5.4A, 3.5.5.1, 4.2.2, 4.6.1, 4.6.4A and 4.6.5, and Tables 3.1 and 4.1.

Published on 16 March 1992.

Approved for publication in New Zealand on behalf of the Standards Council of New Zealand on 13 March 1992.

AS 3103/Amendment 1992-0-12



STANDARDS AUSTRALIA

Amendment No. 1

to

AS 3103—19 0

Approval and test specification—Electric room heaters

REVISED TEXT

The 1990 edition of AS 3103 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Appendix A.

Published on 12 October 1992.

AS 3103/amdt 4/1993-06-14



STANDARDS AUSTRALIA

Amendment No. 4

to

AS 3103—1990

Approval and test specification—Electric room heaters

REVISED TEXT

The 1990 edition of AS 3103 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 2.5, 2.8 and 3.5.11.

Published on 14 June 1993.

Australian Standard®

**Approval and test specification—
Electric room heaters**

First published as AS C103—1937.
Second edition 1940.
Third edition 1952.
Revised and redesignated AS 3103—1975.
Second edition 1981.
Third edition 1985.
Fourth edition 1990.

PREFACE

This Specification was prepared by the Standards Australia Committee on, Electrical Approvals Standards to supersede AS 3103—1985, *Electric room heaters*.

It is one of a series of Approval and Test Specifications issued by Standards Australia. These Specifications are accompanied by a general Specification AS 3100, containing definitions and general requirements for electrical materials and equipment. The purpose of these Specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment in Australia. Only safety matters and related conditions are covered.

This edition was published to incorporate into the Specification Amendments No 1 to 4 to AS 3103—1985 and to effect changes to Section 1, Clauses 1.1 and 1.3 with regard to scope and referenced documents.

This Specification supersedes AS 3103—1985 from date of publication.

Standards Australia desires to call attention to the fact that this Standard does not purport to include all the necessary provisions of a contract.

↪ **SEE AMENDMENT 2** ↪

AMDT No. 2 MAR. 1992

Page 2 Preface

At the end of the Preface, *add* the following new paragraphs.

The Standards Association of New Zealand wishes to advise that this Specification will supersede NZS 1999:1965 and NZS 6331:1972 from the date of publication of this Amendment.

Standards Australia and the Standards Association of New Zealand advise that this Specification will be published as a Joint Australian/New Zealand Standard at the next printing.

The additional requirements of Clauses 3.5 and 4.6 have been designated as Clauses 3.5.4A and 4.6.4A so as not to require changes to the cross-references of other clauses.

This Amendment forms part of the Specification on publication.

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MDT Page 3 Contents

Retitle Clause 2.8 as CONSTRUCTION.

This Amendment forms part of the Specification 2 years from publication.

AMDT Page 4 Clause 1.3

No 2
A.
192

Add the following referenced Standard:

NZS 6200 Specification for general requirements for electrical apparatus and material

This Amendment forms part of the Specification on publication.

STANDARDS AUSTRALIA

Australian Standard

Approval and test specification—Electric room heaters

SECTION 1 SCOPE, DEFINITIONS, APPLICATION AND REFERENCED DOCUMENTS

1.1 SCOPE. This Specification specifies essential safety requirements for electric room heaters, as defined in Clause 1.4 below, which are designed for operation at low or medium voltage.

This Specification does not apply to the following:

- (a) Airconditioning appliances within the scope of AS 3179.
- (b) Electrical heating systems which are designed to heat a room primarily by raising the temperature of a floor, wall or ceiling surface.
- (c) Electrically-operated infrared and ultraviolet heating devices which are designed for therapeutic or industrial purposes.
- (d) Electric duct heaters within the scope of AS 3102.

1.2 APPLICATION.

1.2.1 General requirements of AS 3100. This Specification shall be read in conjunction with AS 3100 and the appropriate provisions of AS 3100 shall apply to the construction of the heater, and to the insulation or safeguarding of parts which normally carry current or both.

1.2.2 Specific requirements of this Specification. A heater shall be deemed to comply with this Specification only if it complies with all the relevant requirements in Section 2, and with all the appropriate requirements and tests specified in the following Section(s):

Section 3—for heaters such as radiant heaters, panel heaters, fan heaters, liquid filled heaters and convectors; but not including thermal storage heaters.

Section 4—for electrical thermal storage heaters.

1.2.3 Requirements of other Specifications. Equipment and components incorporated in a heater which are depended upon for safety shall comply with the appropriate requirements of any relevant Approval and Test Specification unless such Specifications are varied herein.

1.3 REFERENCED DOCUMENTS The following documents are referred to in this standard:
STANDARDS.

AS 2285 Space heating appliances—External temperature limits and primary guards

AS 2286 Space heating appliances—Secondary guards

AS 2390 Textiles for hospitals and institutions—Blankets.

APPROVAL AND TEST SPECIFICATIONS.

AS 3100 Definitions and general requirements for electrical materials and equipment

AS 3102 Electric duct heaters

AS 3109.1 Appliance couplers for household and similar general purposes

Part 1: General requirements.

AS 3115 Motor operated appliances

AS 3161 Thermostats and energy regulators

AS 3179 Refrigerated room air conditioners

AS 3111 Electric flexible cords

(ZS 6300) SEE AMENDMENT 2

1.4 DEFINITIONS. For the purpose of this Specification the general definitions below apply.**1.4.1 General definitions.**

1.4.1.1 Electric room heater (hereinafter referred to as a 'heater')—an electrical appliance designed for the purpose of heating a room or space by the emission of heat by conduction, radiation, convection, forced air circulation or any combination thereof.

1.4.1.2 Fixed heater—a heater designed to be fastened or otherwise secured at a specific location or a heater which cannot easily be moved from place to place.

1.4.1.3 Portable heater—a heater which can easily be moved from one place to another while connected to the supply.

1.4.1.4 Thermal storage heater—a self-contained heater specifically designed to store heat derived from electrical energy.