

Australian Standard[®]

**Performance of household
electrical appliances —
Thermal-storage room heaters**

This Australian Standard was prepared by Committee EL/15, Quality and Performance of Household Electrical Appliances. It was approved on behalf of the Council of Standards Australia on 13 November 1989 and published on 14 May 1990.

The following interests are represented on Committee EL/15:

Australian Consumers Association
Australian Electrical and Electronics Manufacturer's Association
Australian Federation of Consumer Organizations
Consumer Electronics Suppliers Association
Department of Business and Consumer Affairs, N.S.W.
Electricity Supply Association of Australia

Additional interests participating in preparation of Standard:

Heat Electric Trade Association

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PREFACE

This Standard was prepared by the Standards Australia Committee on Quality and Performance of Household Electrical Appliances to supersede AS 1206–1972, *Thermal-storage electric room heaters*.

In the preparation of this Standard consideration was given to IEC 531, *Methods for measuring the performance of household electric room heaters of the storage type*, and acknowledgement is made of the assistance received from that Standard. However, this Standard is based on current Australian requirements, test procedures, and testing facilities available in Australia which differ from those specified in IEC 531.

This Standard differs from AS 1206–1972 mainly in amended test procedures which take advantage of improvements made to the test facilities available in Australia.

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STANDARDS AUSTRALIA

Australian Standard

**Performance of household electrical appliances —
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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies requirements for construction and performance of electric thermal-storage room heaters. It also applies to electric thermal-storage room heaters incorporating additional electrical means for direct heating.

NOTE: Unless otherwise qualified, the word 'heater' in this Standard means 'electric thermal-storage room heater'.

This Standard does not apply to the following:

- (a) Direct-acting electric room heaters, not incorporated with electric thermal-storage room heaters.
- (b) Airconditioning appliances within the scope of AS 1861.
- (c) Electric heating systems which are designed to heat a room primarily by raising the temperature of a floor, wall or ceiling surface.

NOTE: The object of this Standard is to list and define the performance characteristics so that a purchaser may select the appropriate heater for the application in conjunction with relevant information on electricity supply authority requirements.

1.2 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS

1627	Metal finishing — Preparation and pretreatment of surfaces
1627.6	Part 6: Phosphate treatment of iron and steel surfaces
1861	Air-conditioning units — Methods of assessing and rating performance
1861.1	Part 1: Refrigerated room air-conditioners
2202	Code of practice for the provision of warranties/guarantees for household goods
2219	Methods of test for vitreous enamel coatings
2219.2.1	Part 2.1: Physical tests — Determination of resistance of vitreous enamel coatings to thermal shock
2219.2.3	Part 2.3: Physical tests — Determination of abrasion resistance of vitreous enamel coatings
2323	Provision of point-of-sale information for household goods (Buy guide)
3103	Approval and test specification — Electric room heaters
3161	Approval and test specification for thermostats and energy regulators
IEC	
704	Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances

1.3 SAFETY REQUIREMENTS. This Standard does not include the electrical safety requirements which must be observed to secure approval for the connection or sale of electric thermal-storage room heaters, or safety requirements in respect of fire, electric shock, or the guarding of heated surfaces. AS 3103 specifies safety requirements for electric room heaters.

1.4 DEFINITIONS. For the purpose of this Standard, the following definitions apply:

1.4.1 Thermal-storage electric room heater — a self-contained heater specifically designed to store heat derived from electrical energy in an accumulating core in order to release it during the cycle of operation.

1.4.2 Auxiliary element — an electric heating element designed to augment the heater output by direct emission.

1.4.3 Charge controller — a device integral with the heater which enables the energy input to be regulated, such as a thermostat or energy regulator.