C/E

SUPERSEDED BY Amendment 1 - May 1982 AS 3179 - 1982

Electrical

AS 3179—1979
UDC 621.31:628.84

Australian Standard 3179—1979

APPROVAL AND TEST SPECIFICATION FOR

SMALL SELF-CONTAINED REFRIGERATED AIR CONDITIONERS

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.

Incorporated by Royal Charter

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations or departments were officially represented on the committee entrusted with the preparation of this specification:

Australian Chamber of Commerce

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Electrical Apparatus Approvals Authorities

Electrical Contractors Association of Australia

Electrical Testing Laboratories

Electricity Supply of Australia

Electronic Importers Association

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Amendment No 1
May 1982

STANDARDS ASSOCIATION OF AUSTRALIA

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AMENDMENT No 1
to
AS 3179—1979
Approval and Test Specification
for
SMALL SELF-CONTAINED REFRIGERATED AIR CONDITIONERS

The 1979 edition of AS 3179 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 5.1, 5.2, 18.15 (new), 18.16 (new) and Table 1. In addition a number of references to AS C100 have been changed to AS 3100.

Published on 10 May 1982.

Preface.

Page 4. (Line under title.)

Clauses 3.1, 5.3, 5.4, 6, 8.1, 10, 11, 13, 17 and 18.

Delete 'AS C100' and *insert* 'AS 3100'.

AMDT No 1 MAY 1982

This amendment forms part of the specification on publication.

Page 5. Clause 5.1.

Delete existing Clause 5.1 and *substitute:*

5.1 Permanent Connection. An air conditioner intended for permanent connection to fixed wiring shall be provided with terminals in accordance with Clauses 4.3 and 4.9 of AS 3100.

AMDT No 1 MAY 1982

This amendment forms part of the specification on publication.

Page 5. Clause 5.2.

Delete existing Clause 5.2 and *substitute:*

5.2 Connection by Flexible Cord. An air conditioner intended for connection by means of a flexible cord shall be provided with one of the following means of connection to the supply:

(a) Type C appliance plug and appliance inlet socket complying with AS C109.

(b) A power supply cord which shall be assembled with the appliance by one of the following methods:

Type X attachment.
Type M attachment.
Type Y attachment.

AMDT No 1 MAY 1982

This amendment forms part of the specification on publication.

Page 10. Table 1.

AMDT No 1 MAY 1982

(i) *Add* the following new test:

14	Stability Test	8.14 of AS 3100

This amendment forms part of the specification on 1 June 1983.

(ii) *Add* the following new test:

15	Determination of Ignitability and Combustion Propagation	18.15 herein.

This amendment forms part of the specification on 1 January 1983.

(iii) *Add* the following new test:

16*	Test for D.C. Component	18.16 herein

*This test may be conducted in conjunction with earlier appropriate tests.

This amendment forms part of the specification on 1 March 1983.

New Clause 18.15.

AMDT No 1 MAY 1982

Add the following new clause:

18.15 Determination of Ignitability and Combustion Propagation. This test shall be carried out in accordance with the provisions of Clause 6.1.1 of AS 3100 with values for (a) and (b) as follows:

(a) 850° C for 30 s.

(b) 850° C for 30 s.

This amendment forms part of the specification on 1 January 1983.

New Clause 18.16.

AMDT No 1 MAY 1982

Add the following new clause:

18.16 Test for D.C. Component. The appliance shall be tested in accordance with Clause 3.12 of AS 3100.

The direct current in the appliance neutral shall not exceed 5 mA.

This amendment forms part of the specification on 1 March 1983.

SUPERSEDED BY Amendment No 1 (AS 3179-1979)

Amendment No 1
May 1982

STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter

AMENDMENT No 1
to
AS 3179—1980 1979
Approval and Test Specification
for
SMALL SELF-CONTAINED REFRIGERATED AIR CONDITIONERS

The 1980 edition of AS 3179 is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 5.1, 5.2, 18.15 (new), 18.16 (new) and Table 1. In addition a number of references to AS C100 have been changed to AS 3100.

Published on 10 May 1982.

Preface.

Page 4. (Line under title.)

Clauses 3.1, 5.3, 5.4, 6, 8.1, 10, 11, 13, 17 and 18.

Delete 'AS C100' and *insert* 'AS 3100'.

AMDT
No 1
MAY
1982

This amendment forms part of the specification on publication.

PREFACE

This revised specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 25 July 1979, and was published on 1 November 1979.

It is one of a series of approval and test specifications issued by the Association under Part 2 of the SAA Wiring Rules. These specifications are accompanied by a general specification AS ~~C100~~ 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.

The purpose of the revision is to express the requirements in metric units having regard to Australian Government legislation under the metric conversion Act, 1970, which has the objective of the progressive adoption of such units. The '3000' series of numbers has been allocated for new and revised SAA approval and test specifications expressed in metric units, the letter classification 'C' being dropped; thus this specification which was numbered AS C179 in the imperial unit series becomes AS 3179 in the metric series.

It should be noted that the metric values herein are a 'soft' conversion, i.e. a direct conversion from imperial to metric units, rounded off as was considered appropriate. No attempt has been made to revise established criteria; however, various items have been updated in line with current drafting practice.

This specification supersedes AS C179—1970 from date of publication.

The Association desires to call attention to the fact that this specification does not purport to include all the necessary provisions of a contract.

This specification requires reference to the following Australian standard approval and test specifications:

AS ~~C100~~ 3100 Definitions and General Requirements for Electrical Materials and Equipment

AS C109 Appliance Plugs and Appliance Inlet Sockets

AS 3133 Air Break Switches

AS 3191 Electric Flexible Cords

and to AS 1939, Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment.

In addition, reference to other approval and test specifications may be required for approval of particular components incorporated in small self-contained refrigerated air conditioners (see Clause 3.3).

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
Approval and Test Specification
for
SMALL SELF-CONTAINED REFRIGERATED AIR CONDITIONERS

SEE AMENDMENT No 1

This specification shall be read in conjunction with AS ~~C100~~ 3100, Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment. (See also Clause 3 below.)

1 SCOPE. This specification applies to small self-contained refrigerated air conditioners employing air-cooled condensers and designed for operation at low or medium voltage.

2 DEFINITION. For the purpose of this specification the following definition applies:

2.1 Small self-contained refrigerated air conditioner—an encased assembly designed as a unit primarily for mounting in a window or through a wall, or as a console, incorporating a source of refrigeration for cooling air and means of circulating air in order to provide free delivery of conditioned air to an enclosed space. It may also include means of heating the air.

3 COMPLIANCE WITH SPECIFICATIONS. SEE AMENDMENT No 1

3.1 General Requirements of AS ~~C100~~ 3100. This specification shall be read in conjunction with AS ~~C100~~ 3100 and the appropriate provisions of AS ~~C100~~ 3100 shall apply to the construction of the air conditioner and the insulation and safeguarding of parts that normally carry current. SEE AMENDMENT No 1

3.2 Specific Requirements of this Specification. An air conditioner shall be deemed to comply with this specification only if it complies with all the appropriate requirements of this specification and passes the relevant tests specified herein.

3.3 Requirements of Other Specifications. Components incorporated in air conditioners which are depended upon for safety shall comply with the appropriate requirements of any relevant approval and test specification unless such requirements are varied herein.

4 MATERIALS AND COMPONENTS. The air conditioner shall be constructed of suitable materials having strength and corrosion-resisting properties sufficient for the support and protection of the electrical components.

All electrical materials or components in the air conditioner shall