

Australian/New Zealand Standard™

**Performance of electrical appliances—
Airconditioners and heat pumps**

**Part 1.3: Water-source heat pumps—
Water-to-air and brine-to-air heat
pumps—Testing and rating of
performance (ISO 13256-1:1998, MOD)**



AS/NZS 3823.1.3:2005

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-015, Quality and performance of household electrical appliances. It was approved on behalf of the Council of Standards Australia on 28 November 2005 and on behalf of the Council of Standards New Zealand on 21 December 2005. This Standard was published on 30 December 2005.

The following are represented on Committee EL-015:

Australian Association of Certification Bodies
Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Australian Retailers Association
Business New Zealand
Consumer Electronic Suppliers Association
Department of minerals and Energy, Qld
Department of Industrial Relations, Qld
Electrical Compliance Testing Association
Energy Efficiency and Conservation Authority New Zealand
Ministry of Energy and Utilities, New South Wales
National Appliance and Equipment Energy Efficiency Committee
National Association of Testing Authorities Australia
New Zealand Manufacturers Federation
Office of the Chief Electrical Inspector, Victoria
Office of the Technical Regulator, South Australia

Additional Interests:

Air Conditioning and Refrigeration Equipment Manufacturers Association
Institute of Refrigeration Heating and Air Conditioning Engineers of
New Zealand
Institution of Professional Engineers New Zealand
Primary Industries and Resources, South Australia
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

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**Performance of electrical appliances—Airconditioners and heat pumps
Part 1.3: Water-source heat pumps—Water-to-air and brine-to air heat pumps—
Testing and rating of performance (ISO 13256-1, Ed. 01 (1998) MOD)**

RECONFIRMATION NOTICE

Technical Committee E1-056 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 11 May 2016.

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The following are represented on Technical Committee E1-056:

Airconditioning & Refrigeration Equipment Manufacturers Association of Australia
Australian Building Codes Board
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Energy Efficiency & Conservation Authority of New Zealand
Energy Safe Victoria
Institute of Refrigeration Heating & AirConditioning Engineers of New Zealand
Institution of Professional Engineers New Zealand
The University of New South Wales

NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-015, Quality and Performance of Household Electrical Appliances.

This Standard incorporates Amendment No. 1 (September 2011). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard is an adoption with national modifications and has been reproduced from ISO 13256-1:1998, *Water-source heat pumps—Testing and rating for performance—Part 1: Water-to-air and brine-to-air heat pumps*, and has been varied as indicated to take account of Australian/New Zealand conditions.

Variations to ISO 13256-1:1998 are indicated at the appropriate places throughout this standard. Strikethrough (~~example~~) identifies ISO text, tables and figures which, for the purposes of this Australia/New Zealand Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (example). Added figures are not themselves shaded, but are identified by a shaded border.*

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'ISO 13256-1' should read 'AS/NZS 3823.1.3'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.
- (d) Any French text on figures should be ignored.

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

* Obvious spelling errors have been corrected.

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STANDARDS AUSTRALIA

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(ISO 13256-1:1998, MOD)**

Any table, figure or text of the international standard that is struck through is not part of this standard. Any Australian/New Zealand table, figure or text that is added is part of this standard and is identified by shading.

1 Scope

1.1 This part of ISO 13256 establishes performance testing and rating criteria for factory-made residential, commercial and industrial, electrically-driven, mechanical-compression type, water-to-air and brine-to-air heat pumps. The requirements for testing and rating contained in this part of ISO 13256 are based on the use of matched assemblies.

1.2 Equipment designed for rating at one application under this part of ISO 13256 may not be suitable at all applications covered in this part of ISO 13256.

1.3 This part of ISO 13256 does not apply to the testing and rating of individual assemblies for separate use, nor to the testing and rating of heat pumps covered in ISO 5151, ISO 13253 or ISO 13256-2.

NOTE — For the purpose of the remaining clauses, the terms “equipment” or “heat pumps” may be used to mean “water-to-air heat pumps” or “brine-to-air heat pumps” and the term “liquid” refers to either “water” or “brine”.

NOTE: Airconditioners with water cooled condensers have been excluded from AS/NZS 3823.1.1 and AS/NZS 3823.1.2 and are covered under the requirements of this Standard.

1.4 This does not cover the determination of seasonal efficiencies which may be required in some countries.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 13256. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 13256 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

References to international standards that are struck through in this clause are replaced by references to Australian or Australian/New Zealand Standards that are listed immediately thereafter and identified by shading. Any Australian or Australian/New Zealand Standard that is identical to the International Standard it replaces is identified as such.

~~ISO 817:^{*}, Refrigerants — Number designation.~~

AS/NZS 1677.1, Refrigerating systems, Part 1: Refrigerant classification

^{*}To be published. (Revision of ISO 817:1974)