

Australian/New Zealand Standard™

**Performance of electrical appliances—  
Air conditioners and heat pumps**

**Part 4.1: Air-cooled air conditioners and  
air-to-air heat pumps—Testing and  
calculating methods for seasonal  
performance factors—Cooling seasonal  
performance factor (ISO 16358-1:2013,  
(MOD))**



#### **AS/NZS 3823.4.1:2014**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-056, Room Air Conditioners. It was approved on behalf of the Council of Standards Australia on 5 September 2014 and on behalf of the Council of Standards New Zealand on 12 September 2014.  
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The following are represented on Committee EL-056:

Airconditioning and Refrigeration Equipment Manufacturers Association of Australia  
Australian Building Codes Board  
Australian Industry Group  
CHOICE  
Consumer Electronics Association of New Zealand  
Consumer Electronics Suppliers Association  
Department of Industry (Australian Government)  
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## Australian/New Zealand Standard™

### Performance of electrical appliances— Air conditioners and heat pumps

#### Part 4.1: Air-cooled air conditioners and air-to-air heat pumps—Testing and calculating methods for seasonal performance factors—Cooling seasonal performance factor (ISO 16358-1:2013, (MOD))

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-056, Room Air Conditioners.

*This Standard incorporates Amendment No. 1 (May 2017). 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.*

The objective of this Standard is to provide a method of testing and calculating the seasonal performance factor of equipment using temperature bin distributions modified for Australian and New Zealand conditions.

This Standard is an adoption with national modifications and has been reproduced from ISO 16358-1:2013, *Air-cooled air conditioners and air-to-air heat pumps—Testing and calculating methods for seasonal performance factors*, Part 1: *Cooling seasonal performance factor*, and has been varied as indicated to take account of Australian/New Zealand conditions. The modifications are specified in Appendix ZZ. Appendix ZA has been added to provide information on the development of the climate files for Australia and New Zealand.

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

- (a) In the source text ‘this part of ISO 16358’ should read ‘this Australian/New Zealand Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
5151	Non-ducted air conditioners and heat pumps—Testing and rating for performance	3823	Performance of electrical appliances—Airconditioners and heat pumps
		3823.1.1	Part 1.1: Non-ducted airconditioners and heat pumps—Testing and rating for performance (ISO 5151:2010, MOD)
13253	Ducted air-conditioners and air-to-air heat pumps—Testing and rating for performance	3823.1.2	Part 1.2: Ducted airconditioners and air-to-air heat pumps—Testing and rating for performance (ISO 13253:2011, MOD)
15042	Multiple split-system air-conditioners and air-to-air heat pumps—Testing and rating for performance	3823.1.4	Part 1.4: Multiple split-system airconditioners and air-to-air heat pumps—Testing and rating for performance (ISO 15042:2011, MOD)

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex or appendix to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

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