

Australian/New Zealand Standard™

**Performance of commercial ice makers  
and ice storage bins**

**Part 3: Minimum energy performance  
standard (MEPS) requirements**



### **AS/NZS 4865.3:2008**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-008, Refrigerated Display Cabinets. It was approved on behalf of the Council of Standards Australia on 26 June 2008 and on behalf of the Council of Standards New Zealand on 8 July 2008.

This Standard was published on 15 September 2008.

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The following are represented on Committee ME-008:

Australian Food and Grocery Council  
Australian Greenhouse Office, Department of the Environment and Heritage  
Australian Industry Group  
Air Conditioning and Refrigeration Manufacturers' Association  
Australian Institute of Refrigeration Air Conditioning and Heating (Inc)  
Australian Retailers Association  
Electrical Compliance Testing Association  
Energy Efficiency & Conservation Authority of New Zealand  
Engineers Australia  
Food Science Australia  
Food Standards Australia New Zealand  
National Association of Retail Grocers of Australia  
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## PREFACE

This Standard was prepared by the members of the Joint Standards Australia/Standards New Zealand Technical Committee ME-008.

The objective of this Standard is to provide designers, manufacturers, importers, test laboratories, regulators, and users of ice makers and ice storage bins with minimum energy performance standard (MEPS) requirements for these devices.

This Standard was prepared in response to the publication of a plan for the regulation of ice makers and ice storage bins under the National Appliance and Equipment Energy Efficiency Program (NAEEEP).

This series consists of 3 parts. These are—

### AS/NZS

- 4865 Performance of commercial ice makers and ice storage bins
- 4865.1 Part 1: Test methods for ice makers—Environmental performance
- 4865.2 Part 2: Test methods for ice storage bins—Environmental performance
- 4865.3 Part 3: Minimum energy performance standard (MEPS) requirements

Part 1 sets out the test methods for measuring the environmental performance and test records of ice makers.

Part 2 sets out the test methods for measuring the environmental performance and test records of ice storage bins.

Part 3 (this part) specifies minimum energy performance standard (MEPS) levels for ice makers and ice storage bins and high efficiency levels for ice makers. Regulatory authorities have advised that it is intended to introduce regulations making the requirements of this Standard mandatory in Australia and New Zealand no earlier than 1 October 2009.

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

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard. ‘Shall’ indicates that a requirement is mandatory, while ‘should’ indicates a recommendation and good practice.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Performance of commercial ice makers and ice storage bins****Part 3: Minimum energy performance standard (MEPS) requirements**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies minimum energy performance standard (MEPS) requirements for ice makers and ice storage bins within the scope of AS/NZS 4865.1:2008 and AS/NZS 4865.2:2008.

This Standard further specifies the following:

- (a) Energy performance determination.
- (b) Storage effectiveness determination.
- (c) Definition of high efficiency ice makers.
- (d) Application for registration and test report formats.

**1.2 NORMATIVE REFERENCES**

The following documents are indispensable for the application of this Standard:

AS

2706 Numerical values—Rounding and interpretation of limiting values

AS/NZS

4865 Performance of commercial ice makers and ice storage bins

4865.1 Part 1: Test methods for ice makers

4865.2 Part 2: Test methods for ice storage bins

IEC

60050-300 International Electrotechnical Vocabulary—Electrical and electronic measurements and measuring instruments

**1.3 DEFINITIONS**

For the purposes of this Standard, the definitions given in AS/NZS 4865.1 and AS/NZS 4865.2 apply.

**1.3.1 Family of models**

A range of models of the one brand for which a single set of test reports is applicable and where each of the models has the same relevant physical characteristics and energy consumption (where applicable).

In this document, the term ‘model’ is synonymous with ‘family of models’.

**1.3.2 Measured quantities**

Quantities used in this Standard shall be measured during tests carried out in accordance with AS/NZS 4865.1:2008 and AS/NZS 4865.2:2008.

**1.3.3 Rounding**

Unless otherwise stated, numbers shall be rounded and recorded to two significant figures, in accordance with AS 2706.