

Australian Standard[®]

Refrigerated display cabinets

**Part 14: Minimum energy performance
standard (MEPS) requirements**

STANDARDS
Australia



This Australian Standard® was prepared by Committee ME-008, Refrigerated Display Cabinets. It was approved on behalf of the Council of Standards Australia on 26 September 2003.

This Standard was published on 1 October 2003.

The following are represented on Committee ME-008:

- Australian Greenhouse Office
 - Australian Retailers Association
 - Commercial Refrigeration Manufacturers Association of Australia
 - Food Science Australia
 - Institution of Engineers Australia
 - Refrigeration Air Conditioning Companies Association
-

This Standard was issued in draft form for comment as DR 13219.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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First published as AS 1731.14—2003.
Reissued incorporating Amendment No.1 (December 2005).
Reissued incorporating Amendment No.2 (July 2012).

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Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 5538 0

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee ME-008, Refrigerated Display Cabinets. This document is a Part of the AS 1731 series, *Refrigerated display cabinets*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (December 2005) and Amendment No. 2 (July 2012). 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 Part of the Standard is published with the express approval of the Australian Greenhouse Office, and state and territory regulatory authorities and it is structured to be suitable for reference in legislation in Australia. Since 2000, government representatives have been working with industry representatives to develop product performance standards and mandatory labelling requirements for refrigerated display cabinets. It is anticipated that the Ministerial Council on Energy (the elected Ministers responsible for energy efficiency regulation in Australia) will give mandatory effect to the requirements stipulated in this document. The Ministerial Council is scheduled to consider imposing minimum energy performance standards (MEPS) and mandatory labelling requirements in late 2003. The target date for commencement of these requirements upon product manufactured or imported into Australia is 1 October 2004.

The intention of MEPS is to improve end-use energy efficiency by eliminating lower efficiency refrigerated display cabinets from the market and to encourage the sale and purchase of higher efficiency display cabinets. The objective of this Standard is to provide industry in general, and manufacturers and suppliers of refrigerated display cabinets specifically, with MEPS and high-efficiency product performance levels as well as mandatory labelling requirements.

The test methods used to determine compliance with MEPS is based on the International Standard prEN ISO 23953-2:2003 which have been substantially incorporated into the AS 1731 series of Standards. Regulatory authorities intend to continue to align the Australian Standard as far as possible with the ISO Standard.

To ascertain the status of MEPS in any jurisdiction, suppliers of refrigerated display cabinets should contact the regulator in that jurisdiction. Contact details for these regulatory bodies are available from the Standards Australia Research and Information Centre or on the SAI website www.standards.com.au. More information about the two national appliance and equipment energy efficiency programs is available from www.energyrating.gov.au. This website also has information on the enforcement strategies and approaches taken by regulatory agencies to ensure compliance with this Standard.

Statements expressed in mandatory terms in notes to figures, are deemed to be requirements of this Standard.

The terms ‘normative’ and ‘informative’ have been 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.

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STANDARDS AUSTRALIA

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the mandatory requirements for remote and self-contained refrigerated display cabinets that fall within the Scope of AS 1731.1. This standard does not specify electrical safety requirements.

1.2 APPLICATION

This Standard shall be read in conjunction with AS 1731 series of Standards.

1.3 OBJECTIVE

The objective of this Standard is to provide detailed information on—

- A1 | (a) the performance requirements for a refrigerated display cabinet to meet minimum energy performance standard requirements;
- (b) the performance requirements for a refrigerated display cabinet to be designated as ‘high efficiency’; and
- (c) the reporting format for refrigerated display cabinet applications for registration or notification.

1.4 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2706 Numerical values—Rounding and interpretation of limiting values

1731 Refrigerated display cabinets

1731.1 Part 1: Terms and definitions

1731.2 Part 2: General mechanical and physical requirements

1731.3 Part 3: Linear dimensions, areas and volumes

1731.4 Part 4: General test conditions

1731.5 Part 5: Temperature test

1731.9 Part 9: Electrical energy consumption test

1731.12 Part 12: Measurement of the heat extraction rate of the cabinets when the condensing unit is remote from the cabinet

1731.13 Part 13: Test report

ISO

9050 Glass in building—determination of light transmittance, solar direct transmittance, total solar energy transmittance and ultraviolet transmittance, and related glazing factors