

Australian Standard™

**Refrigerated display cabinets**

**Part 4: General test conditions**



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.

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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

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**Refrigerated display cabinets**

**Part 4: General test conditions**

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## PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee ME-008, Refrigerated Display Cabinets, to supersede AS 1731.4—2000, *Refrigerated display cabinets, Part 4: General test conditions*. 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). 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 based on International Standard prEN ISO 23953-2:2003, *Refrigerated display cabinets, Part 2: Classification, requirements and test conditions*.

This Standard is Part 4 of a series of Standards on refrigerated display cabinets as follows:

## AS

- |         |  |
|---------|--|
| 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 (this Standard)  |
| 1731.5  | Part 5: Temperature test   |
| 1731.6  | Part 6: Classification according to temperatures   |
| 1731.7  | Part 7: Defrosting test  |
| 1731.8  | Part 8: Water vapour condensation test   |
| 1731.9  | Part 9: Electrical energy consumption test   |
| 1731.10 | Part 10: Test for absence of odour and taste   |
| 1731.11 | Part 11: Installation, maintenance and user guide  |
| 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 reports  |
| 1731.14 | Part 14: Minimum energy performance standard (MEPS) requirements   |

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**Refrigerated display cabinets**

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Part 4: General test conditions

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## 1 SCOPE

### 1.1 Scope of Standard

A1 This Standard specifies terminology, general mechanical and physical requirements, test conditions as well as installation and maintenance, for commercial refrigerators and freezers used for the sale or display of food products including beverages.

This Standard does not cover refrigerated vending machines, ice-makers, cabinets intended for use in catering and similar non-retail applications.

### 1.2 Scope of Part 4

This Part of AS 1731 specifies general conditions for testing refrigerated display cabinets.

## 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

### AS

1731	Refrigerated display cabinets
1731.3	Part 3: Linear dimensions, areas and volumes
1731.5	Part 5: Temperature test
1731.7	Part 7: Defrosting test
1731.8	Part 8: Water vapour condensation test
1731.9	Part 9: Electrical energy consumption test
1731.10	Part 10: Test for absence of odour and taste
1731.13	Part 13: Test report

### AS/NZS

1677	Refrigerating systems
1677.1	Part 1: Refrigerant classification

## 3 OBJECTIVE

The objective of this Standard is to specify the general test conditions for refrigerated display cabinets, for use by manufacturers, suppliers, purchasers, operators and regulators of these systems.

## 4 GENERAL TEST CONDITIONS

### 4.1 General

General test conditions deal with the measurement of the following characteristics:

- (a) Temperature (see AS 1731.5).
- (b) Defrosting (see AS 1731.7).
- (c) Water vapour condensation (see AS 1731.8).
- (d) Energy consumption (see AS 1731.9).