

Australian Standard™

Refrigerated display cabinets

**Part 2: General mechanical and
physical requirements**



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 2: General mechanical and physical requirements

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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—2000, *Refrigerated display cabinets, Part 2: General mechanical and physical requirements*. 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 2 of a series of Standards for 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 (this Standard)
- 1731.3 Part 3: Linear dimensions, areas and volumes
- 1731.4 Part 4: General test conditions
- 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

CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 REFERENCED DOCUMENTS.....	4
3 OBJECTIVE	5
4 CONSTRUCTION.....	5
5 REQUIRED CHARACTERISTICS AND THEIR LIMITS	9
6 TESTS AND INSPECTIONS	10
7 MARKING AND INFORMATION.....	11

STANDARDS AUSTRALIA

Australian Standard

Refrigerated display cabinets

Part 2: General mechanical and physical requirements

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 2

This Part of AS 1731 defines the requirements for construction, selection and use of materials, components and performance of refrigerated display cabinets. It specifies the reference to other Parts of AS 1731 which define in detail the conditions and test methods for these requirements. Finally, it specifies the requirements for marking and the list of characteristics to be declared by the manufacturer.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1731	Refrigerated display cabinets
1731.1	Part 1: Terms and definitions
1731.3	Part 3: Linear dimensions, areas and volumes
1731.4	Part 4: General test conditions
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 the absence of odour and taste
1731.14	Part 14: Minimum energy performance standard (MEPS) requirements

AS/NZS

1677	Refrigerating systems
1677.1	Part 1: Refrigerant classification
1677.2	Part 2: Safety requirements for fixed applications
3350	Safety of household and similar electrical appliances
3350.2.24	Part 2.24: Particular requirements for refrigerating appliances and ice-cream appliances and ice-makers
60335	Household and similar electrical appliances—Safety—Particular requirements
60335.2.89	Part 2.89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor