

Australian Standard™

Refrigerated display cabinets

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



Standards Australia

This Australian Standard was prepared by Committee ME/8, Refrigerated Display Cabinets. It was approved on behalf of the Council of Standards Australia on 28 April 2000 and published on 10 August 2000.

The following interests are represented on Committee ME/8:

Australian Food and Grocery Council
Australian Retailers Association
Commercial Refrigeration Manufacturers Association of Australia
Food Science Australia
New South Wales Health Department

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

Originated as AS B220—1966.
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PREFACE

This Standard was prepared by the Standards Australia Committee ME/8, Refrigerated Display Cabinets, to supersede (in part) AS 1731—1983, *Frozen food retail cabinets*.

The Scope of the original Standard has been extended to include requirements for retail chiller cabinets as well as retail freezer cabinets.

This series of Standards is based on British Standard BS EN 441:1994, *Refrigerated display cabinets, Part 2: General mechanical and physical requirements*.

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
- 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

The objective of this series of Standards is to provide standardized construction requirements and performance assessment procedures for refrigerated display cabinets, for use by manufacturers, suppliers, purchasers, operators and regulators of these systems.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.



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STANDARDS AUSTRALIA

Australian Standard
Refrigerated display cabinets

Part 2: General mechanical and physical requirements

1 SCOPE

1.1 Scope of Standard

This series of Standards specifies terminology, general mechanical and physical requirements, test conditions as well as installation and maintenance, including a user's guide, for refrigerated display cabinets for the sale or display, or both, of food products.

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

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	
3303	Approval and test specifications—Particular requirements for refrigerators and food freezers
1199	Sampling procedures and tables for inspection by attributes
1399	Guide to AS 1199—Sampling procedures and tables for inspection by attributes
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
AS/NZS	
1677	Refrigerating systems
1667.1	Part 1: Refrigerants classification
1667.2	Part 2: Safety requirements for fixed applications
ISO 9000	Quality management and quality assurance Standards Australia
ISO 9000.1	Part 1: Guidelines for selection and use
ISO 9004	Quality management and quality system elements
ISO 9004.1	Part 1: Guidelines