

Australian Standard™

Refrigerated display cabinets

Part 7: Defrosting test

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 7: Defrosting test

Originated as AS B220—1966.
Previous edition AS 1731—1983.
Revised and redesignated in part as AS 1731.7—2000.

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Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 3413 8

PREFACE

This Standard was prepared by 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 Standard is based on British Standard BS EN 441:1994, *Refrigerated display cabinets* (Part 7).

This Standard is Part 7 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 these products for use by manufacturers, suppliers, purchasers, operators and regulators of these systems.

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STANDARDS AUSTRALIA

Australian Standard

Refrigerated display cabinets

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1 SCOPE

1.1 Scope of Standard

This Standard 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 7

This part of AS 1731 specifies the procedure to test the defrosting method of refrigerated display cabinets when tested at the same conditions as those specified for the temperature test (see AS 1731.5). The test is not applicable to cabinets or parts of cabinets intended to be defrosted manually.

2 REFERENCED DOCUMENTS

The following documents are referenced in this Standard:

AS

- 1731 Refrigerated display cabinets
- 1731.4 Part 4: General test conditions
- 1731.5 Part 5: Temperature test

3 TEST PROCEDURE

Locate and load the cabinet as for the temperature test (see AS 1731.4 and AS 1731.5), operate it in accordance with the manufacturer's instructions at the conditions appropriate to the test room climate class for which it is intended, and then operate it for at least 24 h after stable operating conditions have been reached (see AS 1731.4) or during the operating period of cabinets intended to be switched off at night (see AS 1731.5).

NOTE: This test may be carried out just after the temperature test.

At the end of a defrost period, switch off the cabinet, as necessary, and unload it as quickly as possible. Examine all surfaces, excluding test packages, within the refrigerated space for any residual ice, frost, snow, or excessive residual water, after dismantling, as necessary, accessories and parts.

If water, ice, frost or snow is evident or if the temperature test performance level is not being maintained, continue to test for a further period of at least 48 h under the same test conditions and with no adjustment to the control device(s).