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Commercial refrigerated cabinets — Methods of test — Part IV : Defrosting test

Meubles frigorifiques commerciaux — Méthodes d'essai — Partie IV : Essai de dégivrage

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 1992/IV (originally Draft International Standard ISO/DIS 2640) was drawn up by Technical Committee ISO/TC 86, *Refrigeration*, and circulated to the Member Bodies in February 1972.

It has been approved by the Member Bodies of the following countries :

Australia	Hungary	Spain
Austria	Ireland	Sweden
Belgium	Israel	Switzerland
Czechoslovakia	Japan	Thailand
Denmark	New Zealand	Turkey
Egypt, Arab Rep. of	Poland	United Kingdom
France	Romania	U.S.S.R.
Germany	South Africa, Rep. of	

The Member Body of the following country expressed disapproval of the document on technical grounds :

Netherlands

Other parts in this series under the general title, *Commercial refrigerated cabinets – Methods of test*, are as follows :

- Part I : *Calculation of linear dimensions, areas and volumes.*
- Part II : *General test conditions.*
- Part III : *Temperature test.*
- Part V : *Water vapour condensation test.*
- Part VI : *Electrical energy consumption test.*
- Part VII : *Test for odour of material.*

(Parts V to VII are at present at the stage of draft.)

Commercial refrigerated cabinets – Methods of test – Part IV : Defrosting test

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the procedure to test the defrosting method of commercial refrigerated cabinets intended for the sale and/or display of food products, when tested in the same conditions as those specified for the temperature test (see part III). The test is not applicable to cabinets or parts of cabinets intended to be defrosted manually.

2 TERMS AND DEFINITIONS

2.1 defrosting : Removal of frost, ice and water from all surfaces, excluding test package surfaces, within the refrigerated space of the cabinet.

2.2 automatic defrosting : The defrosting of a cabinet or part of a cabinet where the frequency and duration of the defrost operation and removal of the defrost water from the refrigerated space do not require any action by the user.

2.3 semi-automatic defrosting : The defrosting of a cabinet or part of a cabinet when the start of each defrost operation is by action of the user, the defrost water being removed from the refrigerated space without any action by the user.

2.4 manual defrosting : The defrosting of a cabinet or part of a cabinet when the start and duration of each defrost operation is by action of the user, the defrost water, frost or ice being removed from the refrigerated space with or without any action by the user.

3 PROCEDURE

Load the cabinet as for the temperature test (see part III), operate it in accordance with the manufacturer's instructions at the conditions appropriate to the class (or classes) of test climate for which it is intended, and then operate it for at least 48 h after stable operating conditions have been reached (see part II). The temperature test may be carried out at the same time.

At the end of the defrost period, examine all surfaces, excluding test packages, within the refrigerated space for any residual water, ice or frost.

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

4 TEST REPORT

The test report shall include the following information :

- statement of type and description of defrosting method(s) for the cabinet or part of it;
- statement of each test room climate for which the cabinet is intended and for which it has been tested;
- results of measurements and observations made after each test period defined in clause 3 above.

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