

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1992

COMMERCIAL REFRIGERATED CABINETS

METHODS OF TEST

PART 1

CALCULATION OF LINEAR DIMENSIONS, AREAS AND VOLUMES

1st EDITION

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BRIEF HISTORY

The ISO Recommendation R 1992, *Commercial refrigerated cabinets – Methods of test – Part I : Calculation of linear dimensions, areas and volumes*, was drawn up by Technical Committee ISO/TC 86, *Refrigeration*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1992, which was circulated to all the ISO Member Bodies for enquiry in April 1970. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Hungary	South Africa, Rep. of
Belgium	Israel	Spain
Chile	Italy	Sweden
Czechoslovakia	Japan	Switzerland
France	Netherlands	U.A.R.
Germany	New Zealand	United Kingdom
Greece	Poland	U.S.S.R.

No Member Body opposed the approval of the Draft.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

FOREWORD

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

- ISO 1993, *Part II : General test conditions*.
- ISO 2335, *Part III : Temperature test*.
- ISO 2640, *Part IV : Defrosting test*.
- ISO 2641, *Part V : Water vapour condensation test*.
- ISO 2642, *Part VI : Electrical energy consumption test*.
- ISO 2643, *Part VII : Test for odour of material*.

(All these documents are at present at the stage of Drafts.)

COMMERCIAL REFRIGERATED CABINETS

METHODS OF TEST

PART I

CALCULATION OF LINEAR DIMENSIONS, AREAS AND VOLUMES

1. SCOPE

This ISO Recommendation defines the terms and specifies the methods for determining linear dimensions, areas and volumes for commercial refrigerated cabinets intended for the sale and/or display of food products.

2. TERMS AND DEFINITIONS

- 2.1 *Load limit.* For each part of the cabinet, boundary surface consisting of a plane or several planes within which all test packages can be maintained within the limits for the product temperature class declared.
- 2.2 *Load line.* Boundary line denoting the edge of the load limit surface.
- 2.3 *Refrigerated shelf area.* Shelf area where the load limit is not less than 100 mm, measured perpendicularly above the plane of the shelf and within the bounds of any load limit.

The refrigerated shelf areas should be declared separately for each product temperature class.

- 2.4 *Display opening.* The product of the smallest length and width (or height, as appropriate) of the opening area of the cabinet.
- 2.5 *Net volume.* Volume intended for products within the load limit.

Parts necessary for the proper functioning of the cabinet, including shelves used in the calculation of refrigerated shelf area, shall be fitted as intended and the volume of these parts shall be deducted when the net volume is determined.

Each net volume should be declared separately for each product temperature class.

- 2.6 *Overall dimensions.* Dimensions of the rectangular parallelepiped with vertical sides within which the cabinet, including its projecting accessories, is contained. For cabinets having detachable ends, overall dimensions should be given with and without ends.

3. MANUFACTURER'S STATED LINEAR DIMENSIONS, AREAS AND VOLUMES

The manufacturer should state the following nominal data :

- (a) overall height, depth and length of cabinet, according to clause 2.6;
- (b) refrigerated shelf area, according to clause 2.3;
- (c) display opening, according to clause 2.4;
- (d) net volume, according to clause 2.5.