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**INTERNATIONAL STANDARD**



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## **Commercial refrigerated cabinets — Methods of test — Part 1 : Calculation of linear dimensions, areas and volumes**

*Meubles frigorifiques commerciaux — Méthodes d'essai — Partie 1 : Détermination des dimensions linéaires des surfaces et des volumes*

First edition — 1974-06-15

**STANDARD PREVIEW**  
**(standards.iteh.ai)**

ISO 1992-1:1974

<https://standards.iteh.ai/catalog/standards/sist/c3c87b71-849c-4fa6-82ed-3eaf74ef5e17/iso-1992-1-1974>

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**Descriptors :** refrigerators, dimensional measurement, specifications.

Price based on 1 page

## 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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 86 has reviewed ISO Recommendation R 1992 and found it suitable for transformation. International Standard ISO 1992/1 therefore replaces ISO Recommendation R 1992-1971.

ISO Recommendation R 1992 was approved by the Member Bodies of the following countries :

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

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 1992 into an International Standard.

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

- Part II : *General test conditions.*
- Part III : *Temperature test.*
- Part IV : *Defrosting test.*
- Part V : *Water vapour condensation test.*
- Part VI : *Electrical energy consumption test.*
- Part VII : *Test for odour of material.*

(The last document is at present at the stage of draft.)

# Commercial refrigerated cabinets — Methods of test — Part I : Calculation of linear dimensions, areas and volumes

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard 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 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 shall 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 shall 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 shall be given with and without ends.

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

The manufacturer shall state the following nominal data :

- overall height, depth and length of cabinet, according to 2.6;
- refrigerated shelf area, according to 2.3;
- display opening, according to 2.4;
- net volume, according to 2.5.

## 4 REPORT

The report shall include the following information :

- the type of the cabinet and manufacturer's name or trade mark, or both;
- the overall dimensions of the cabinet;
- the established refrigerated shelf area for each declared product temperature class;
- the display opening;
- the net volume for each product temperature class declared.

The linear dimensions shall be expressed in millimetres without decimals, as defined in 2.6.

The areas shall be expressed in square metres to two places of decimals, as defined in 2.3 and 2.4.

The volumes shall be expressed in cubic decimetres without decimals, as defined in 2.5.