
INTERNATIONAL STANDARD



2410

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Household refrigerators — Methods of test for the information of the consumer

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Descriptors : household goods, refrigerators, tests, labels, certification.

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 2410 was drawn up by Technical Committee ISO/TC 86, *Refrigeration*, and circulated to the Member Bodies in June 1971.

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

Belgium	Hungary	South Africa, Rep. of
Czechoslovakia	Israel	Spain
Denmark	Italy	Sweden
Egypt, Arab Rep. of	Netherlands	Switzerland
France	New Zealand	United Kingdom
Germany	Romania	U.S.S.R.

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

Ireland

Household refrigerators – Methods of test for the information of the consumer

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies test methods for household refrigerators, for use as a technical basis for the following activities : information labels, comparative tests, certification marks, etc.

It concerns appliances of the following types :

Type A – Refrigerator with fresh food compartment(s);

Type B – Refrigerator with fresh food compartment(s) and ice-making compartment(s);

Type C – Refrigerator with fresh food compartment(s) and compartment(s) for the storage of frozen food.

It does not contain specifications and rules for labelling, marking, sampling, etc.

For the comparison of different types and designs of a certain product, the same test methods shall be used. The methods must be unambiguous.

2 REFERENCES

ISO/R 824, *Household refrigerators – Part I : Performance requirements.*

ISO/R 825, *Household refrigerators – Part II : Special low-temperature compartments for the storage of frozen foodstuffs.*

IEC Publication 316, *Safety requirements for the electrical equipment of refrigerators and food freezers for household and similar purposes.*

3 CHARACTERISTICS

The following characteristics are essential to information on the refrigerators defined in section 1 :

- safety of parts under pressure
- safety of electrical equipment
- safety of the heating equipment (other than electrical) of absorption appliances (if applicable)
- gross volume, storage volume, storage shelf area
- overall space required in use, door open
- defrosting
- airtightness of door seals

- mechanical strength of shelves
- strength of doors and fittings
- characteristics of constituent materials and surface finishes (durability, absence of odour)
- check of noise and vibration
- thermal insulation
- check of internal temperature of fresh food compartment(s)
- check of internal temperature of frozen food storage compartment(s) (Type C only)
- check of internal temperature of butter storage compartment(s) fitted with heater (if applicable)
- no-load characteristics of the refrigerating system (power consumption, percentage running time)
- rated power consumption
- ice production (Types B and C only)
- descriptive information.

4 TEST METHODS

4.1 Safety requirements

Pressure : ISO/R 824, clause 10.3.7

Electrical equipment : IEC Publication 316

Heating equipment (other than electrical) of absorption refrigerators (if applicable) : to be put in hand

4.2 Dimensions

Evaluation of gross volume : ISO/R 824, clause 9.2.1

Evaluation of storage volume : ISO/R 824, clause 9.2.3

Evaluation of storage shelf area : ISO/R 824, clause 9.3.1

Evaluation of overall space required in use, door open : ISO/R 824, clause 2.5.3

4.3 Constructional characteristics

Defrosting : Checking that the required conditions are met : ISO/R 824, clause 10.2.4.2

Airtightness of door seals : ISO/R 824, clause 15.1