

ICS 97.130.20
CCS J 73



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21000.1-2007

**Commercial refrigerated cabinets -- Methods of test -- Part 1:
General test conditions and temperature test
(English Translation)**

Issued on: July 27, 2007

Implemented on: December 1, 2007

Issued by: Standardization Administration of China

Table of Contents

Introduction

1 Scope

2 Normative references

Foreword

GB/T 21000 "Commercial refrigerated cabinets - Test methods" is divided into two parts.

--- Part 1. General test conditions and temperature test;

--- Part 2. Test for accidental mechanical contact.

This part of GB/T 21000 Part 1.

This part identical with ISO 1992-2. 1973 "Commercial refrigerated cabinets - Test methods - Part 2. General test conditions" and its amendments ISO 1992-2. 1973/Amd1. 1979 and ISO 1992-3. 1973 "Commercial refrigerated cabinets - Test methods - Part 3. Temperature Test" and His amendment ISO 1992-3/Amd1. 1980. This part of the amendment to add the content to the relevant chapter, by and with the "||" to be marked.

This part of Chapter 1 to Chapter 5, corresponding to ISO 1992-2. 1973, reg numbers are the same.

Chapter 6 of this section corresponding to ISO 1992-3. 1973, the ISO 1992-3. 1973 "range" is incorporated in Chapter 1, since the package is scheduled M-Yi has been in "4.2 Test Kit" instructions to delete the Chapter 2, "Terms and Definitions", in order to re-arrange the reg number, reg number and ISO 1992-3. 1973 is different.

For ease of use, this section also made the following editorial changes.

- a) delete the original standard "4.2 Test Kit" Note;
- b) Delete the original standard foreword and the like.

Appendix A of this section is an informative annex.

This part is proposed by the China Association of Refrigeration.

This part of the National Standards Technical Committee refrigeration.

This part mainly drafted by. Engineering Design Institute of domestic trade, Tianjin University, Carrier refrigeration, Dalian Sanyo Cold Chain Co., Haier Group.

1 Scope

This section GB/T 21000 specifies the general conditions and test for food sales and (or) commercial freezer display type testing Test methods for temperature package.

2 Normative references

The following documents contain provisions which, through reference GB/T 21000 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

ISO 817 Refrigerant No.

Test ISO 916 refrigeration system Selection and installation of test samples 3

3.1 Each commercial freezer sample for testing, if it is a special prototype, finished goods inventory should be chosen or conventional production line and knot the structure and regulation should be representative.

3.2 The test report shall explicitly tested or freezer is a prototype or finished goods inventory from the factory production line selected.

3.3 freezer, including all the components required for proper operation shall be in accordance with the instructions or the manufacturer's requirements, as far as possible in line with actual use Conditions for assembly, set up and placement. All permanent attachment normally required to be in their respective normal position.

3.4 placed against the wall of the freezer, the distance between the back and the wall should be consistent with the recommended values. If not specified the recommended value, then from the wall should be 100mm.

3.5 When the condensing unit away from the freezer, refrigerated cabinet manufacturer should test conditions specified in this standard.

International numeral a) of the refrigerant (see ISO 817);

b) freezer outlet actual operating suction pressure;

c) the actual functioning of imported refrigerated cabinet inlet temperature;

d) the required heat rate (at ISO 916 are explained in the measuring method).

3.6 During the test, temperature 3.5c) in the definition should not exceed the test chamber temperature 10 °C. Carrying out type tests, Freezer Imports should not be a "flash gas."

4.1 LABORATORY

If the same test more than one freezer in the same test chamber, the test chamber shall be reasonably arranged (for example, using a separator), to ensure that every Refrigerated cabinet environmental conditions meet the test requirements of 4.1.1 ~ 4.1.7 specified.

4.1.1 Power

Voltage deviation and frequency deviation should respectively on the nameplate or other given at nominal $\pm 2\%$ and $\pm 1\%$.

4.1.2 Air flow

Indoor air should be a certain degree of local flow, and flow direction should be parallel or parallel as possible to the plane and the longitudinal axis of the cooler opening line. When the freezer shut down any in Fig. 1 A-A 'line a little air flow should be $0.2\text{m/s} \pm 0.1\text{m/s}$.

GB/T 21000.1-2007/ISO 1992-2. 1973, ISO 1992-3. 1973