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

GB/T 21001.1-2026

Replacing GB/T 21001.1-2015

Refrigerated display cabinets - Part 1: Vocabulary

制冷陈列柜 第1部分：术语

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 1 of GB/T 21001 "Refrigerated Display Cases". GB/T 21001 has already published the following parts.

---Part 1: Terminology;

---Part 2: Classification, Requirements and Test Conditions;

---Part 3: Test Evaluation;

---Part 4: Classification, requirements and test conditions of ice cream freezers.

This document supersedes GB/T 21001.1-2015 "Refrigerated Display Cases Part 1: Terminology" and is consistent with GB/T 21001.1-2015.

Aside from structural adjustments and editorial changes, the main technical changes are as

follows.

---Changed "semi-height vertical refrigerated display case, horizontal refrigerated display case, externally assisted refrigerated display case, self-service refrigerated display case, upper part" Glass door modular refrigerated display case, top-open modular refrigerated display case, multi-temperature zone refrigerated display case, front panel, display opening Definitions of the terms "area," "compression refrigeration system," and "pump power consumption". (see 3.1.3, 3.1.4, 3.1.6, 3.1.7, 3.1.9, 3.1.10) Versions 3.1.11, 3.3.9, 3.4.5, 3.5.4, 3.8.6 (Versions 1.3, 1.4, 1.6, 1.7, 1.9, 1.10, 1.11, 3.9, 4.5, 5.4, 5.14 from 2015).

---Added "Multi-purpose refrigerated display cabinet, assisted cabinet door, assisted cabinet lid, self-service cabinet door, self-service cabinet lid, food loading door", Product series, stain protection covers, compartments, display cases for portable liquid-cooled condensing units, display cases for portable air-cooled condensing units.

Full load, half load, sensitive food loading, test package, product temperature, self-contained compressor performance coefficient, liquid-cooled condenser unit performance coefficient.

Power consumption for anti-condensation, additional cooling power consumption, compressor power consumption, cooling system power consumption, defrosting power consumption, fan power consumption, and cooling Condenser heat dissipation, corrected heat dissipation power consumption, daily heat dissipation, heat dissipation power consumption, additional heat dissipation power consumption, lighting power consumption, condensate steam.

Power consumption of cooling system, power consumption of compressor cooling, power consumption of indirect cooling, additional daily cooling power consumption, power consumption of adjusted cooling, daily Energy consumption coefficient, total corrected daily power consumption, published standard assessment and standard configuration, standard assessment, conditions, standard assessment conditions.

Definitions of "configuration, standard configuration" (see 3.1.12, 3.1.15, 3.1.16, 3.1.17, 3.1.18, 3.1.19, 3.1.20, 3.3.16, 3.4.11,...).

3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.6.2, 3.6.6, 3.8.1, 3.8.2, 3.8.3, 3.8.4, 3.8.5, 3.8.7, 3.8.9 3.8.10, 3.8.11, 3.8.12, 3.8.13, 3.8.14, 3.8.15, 3.8.16, 3.8.17, 3.8.18.1, 3.8.18.2, 3.8.19, 3.8.20 3.8.21, 3.8.23, 3.9.1, 3.9.2, 3.9.3, 3.9.4, 3.9.5, 3.9.6);

---Changed to "multi-temperature zone refrigerated display cabinet, push-in refrigerated display cabinet, wall-mounted assisted display cabinet, display cabinet front, display".

Display case type, gross capacity, indirect refrigeration system, automatic defrosting and melt water removal, manual defrosting and melt water removal, M-package temperature type, display case type.

The terminology for "pump power consumption, daily direct power consumption, cooling power consumption, and total power consumption" (see 3.1.10, 3.1.13, 3.1.14,...) Versions 3.3.10, 3.4.4, 3.4.9, 3.5.5, 3.5.7, 3.5.8, 3.6.4, 3.6.5, 3.8.6, 3.8.8, 3.8.18, 3.8.22, and version 1.11 of the 2015 edition.

1.12, 1.13, 3.10, 4.4, 4.9, 5.5, 5.7, 5.8, 6.3, 6.4, 5.14, 5.12, 5.13, 5.15);

---Added refrigerated display case series HM9 and VM5 and related descriptions (see Appendix Table A.1);

---The term "semi-automatic defrosting" has been removed (see 5.3.3 in the 2015 version).

This document is equivalent to ISO 23953-1:2023 "Refrigerated display cases - Part 1: Terminology".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Refrigeration Standardization (SAC/TC119).

Introduction

Food preservation, food hygiene, and food safety are receiving increasing public attention and importance, and refrigerated display cases play a crucial role in the food distribution process.

Its role is crucial. GB/T 21001 aims to unify the definition and testing methods of refrigerated display cases in China, and consists of four parts.

---Part 1: Terminology. This section aims to standardize the terminology and definitions used for refrigerated display cases used in the sale and display of food.

---Part 2: Classification, Requirements, and Testing Requirements. The purpose is to standardize the structure, characteristics, and performance requirements of refrigerated display cases, and to unify the manufacturing process.

Requirements for testing conditions, testing methods, classification methods, and grading methods for refrigerated display cases.

---Part 3: Testing and Evaluation. The purpose is to supplement the testing and evaluation methods for the safety and performance of refrigerated display cases.

---Part 4: Classification, Requirements, and Test Conditions for Ice Cream Freezers. The purpose is to clarify and standardize the classification of ice cream freezers.

Requirements and test methods.

With the rapid development of global refrigeration equipment technology and the deepening of international trade, the standardization of terminology definitions in the field of refrigerated display cases has become essential for promoting [the development of refrigerated display cases].

This document serves as a key foundation for advancing technological innovation, ensuring product quality, and promoting international cooperation. It is also a core component of my country's refrigeration equipment standardization system.

As a whole, by adopting the international standard ISO 23953-1:2023, my country's standards have been fully aligned with international advanced levels.

The implementation of this standard will strongly promote the technological upgrading and quality improvement of my country's refrigerated display cabinet industry, and provide a competitive edge for domestic and foreign enterprises in the market.

Strive to provide fair and transparent technical guidelines, and also for subsequent standards (such as GB/T 21001.2 "Refrigerated Display Cases Part 2: Classification, Requirements and...").

This laid the foundation for the formulation and revision of GB/T 21001.3 "Refrigerated Display Cabinets - Part 3: Test Evaluation", ultimately contributing to the development of my country's refrigeration industry.

The equipment industry is integrated into the global value chain system.

Refrigerated Display Cases Part 1: Terminology

1 Scope

This document defines the relevant terminology for refrigerated display cases used for the sale and display of food.

This document does not apply to refrigerated vending machines and refrigerated display cases used in food service or other similar non-retail purposes.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

ISO 23953-2:2023 Refrigerated display cases - Part 2: Classification, requirements and test conditions Note. GB/T 21001.2-2026 Refrigerated display cases - Part 2: Classification,