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

GB/T 21001.3-2026

Replacing GB/T 21001.3-2015

Refrigerated display cabinets - Part 3: Test rating

制冷陈列柜 第3部分：试验评定

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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 3 of GB/T 21001 "Refrigerated Display Cases". GB/T 21001 has already published the following parts.

2.Classification, Requirements and Test Conditions;

3.Test Evaluation;

4.Classification, requirements and test conditions of ice cream freezers. This document supersedes GB/T 21001.3-2015 "Refrigerated Display Cases - Part

3.Tests and Evaluation", and is consistent with GB/T 21001.3-2015. Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows:

---The scope of application of the standard has been changed (see Chapter 1, Chapter 1 of the.2015 edition);

---Added requirements and test methods for the display error of the thermometer (see 4.1.5, Appendix B);

---The energy efficiency requirement has been removed (see

4.2.3 in the 2015 version);

---The requirements for water vapor condensation have been changed (see 4.2.2);

---A daily energy consumption coefficient requirement has been added (see 4.2.3);

---Added heat dissipation rate requirements (see 4.2.4);

---Noise requirements and test methods have been added (see 4.2.5, Appendix C);

1 Scope

GB/T 21001.3-2026 is the Chinese national standard covering how a supermarket display cabinet is tested and rated - the climate class of the test room, the temperature classes the product must hold in every package position, the energy consumption measured over 24 hours and the defrost cycles included in it. Display cabinets run continuously and are a large part of a supermarket's electricity bill, which is why the rating method matters commercially. It replaces GB/T 21001.3-2015. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 21001.3-2015. The document is under the responsibility of the China National Light Industry Council. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the testing and evaluation methods for the safety and performance of refrigerated display cases used for the sale and display of food, as well as the evaluation criteria. standard. This document applies to refrigerated display cases used for the sale and display of food. This document does not apply to refrigerated vending machines, commercial beverage refrigerated cabinets as specified in GB/T 46124, or those specified in GB/T 21001.4. Ice cream freezers are not suitable for use with refrigerators intended for storage purposes or for use with refrigerators intended for catering or 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.

GB/T 3785 (all parts) Electroacoustic sound level meters

GB/T 4706.1-2024 Safety of household and similar electrical appliances - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 21001.1-2026 and GB/T 21001.2-2026, as well as the following terms and definitions, apply to this document.

3.1 Rated value The value specified by the manufacturer.

Note. This typically includes total exhibition area (STDA), net volume (effective volume), temperature rating, power consumption, etc.

4.1 Structure

4.1.1 General Requirements It should comply with the requirements of section

4.1 of GB/T 21001.2-2026.

4.1.2 Geometric Dimensions The error between the linear dimensions (such as the overall installation dimensions) measured according to GB/T 21001.2-2026 and the rated values should not exceed the specified value.