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

GB/T 46281.1-2025

**Household and similar refrigerating appliances -
Characteristics and test methods - Part 1: General requirements**

家用和类似用途制冷器具 特性和测试方法 第1部分：通用要求

(English Translation)

Issued on: August 29, 2025

Implemented on: June 1, 2026

Issued by: State Administration for Market Regulation

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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 46281 "Characteristics and Test Methods of Refrigeration Appliances for Household and Similar Purposes".

The following sections have been released.

---Part 1: General Requirements;

---Part 2: Performance Requirements;

---Part 3: Power Consumption and Capacity.

This document adopts IEC 62552-1:2020 "Domestic refrigeration appliances -

Characteristics and test methods - Part 1: General requirements".

The following minimal editorial changes have been made to this document.

---To harmonize with existing standards, the standard title has been changed to "Characteristics and Test Methods for Refrigeration Appliances for Household and Similar Purposes - Part 1" Part. General Requirements.

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 Standardization of Household Appliances (SAC/TC46).

Introduction

GB/T 46281, "Characteristics and Test Methods for Refrigeration Appliances for Household and Similar Purposes," aims to specify the characteristics and test methods for refrigeration appliances for household and similar purposes.

The sex and testing methods are proposed to consist of three parts.

---Part 1: General Requirements. The purpose is to define the scope, terminology and definitions, instruments, laboratories, and setup of refrigeration appliances.

---Part 2: Performance Requirements. This section aims to specify the general performance requirements and test methods for refrigeration appliances.

---Part 3: Energy Consumption and Volume. The purpose is to specify the measurement of energy consumption and volume.

Characteristics of household and similar refrigeration appliances and Test Methods Part 1: General Requirements

1 Scope

This document specifies the basic requirements for household and similar refrigeration appliances that use natural or forced air convection for internal cooling.

The characteristics are described, along with the testing methods for checking these characteristics.

Note: Appendix F lists the items that may be included in the test report.

This document declares that the tests specified are type tests used to evaluate the basic design and operation of a refrigeration appliance. This document does not address...

No requirements are made for production sampling, conformity assessment, or certification.

Verification testing protocols vary across different countries and regions; therefore, this document does not provide uniform requirements for such protocols. When it is necessary to verify a [specific protocol]...

When this document is adapted to the performance of a given type of refrigeration appliance, all tests should, if feasible, be conducted on the same prototype.

When studying a specific characteristic of a refrigeration appliance, a single test may also be conducted.

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 46281.2-2025 Characteristics and test methods for household and similar refrigeration appliances - Part 2: Performance requirements (IEC 62552-2:2020, IDT) GB/T 46281.3-2025 Characteristics and test methods for household and similar refrigeration appliances - Part 3: Power consumption and volume (IEC 62552-3:2020, IDT)

3 Terms and definitions, symbols

The following terms, definitions, and symbols apply to this document.

3.1 General Terms and Definitions

3.1.1

It has one or more rooms that can be controlled at a specified temperature, has suitable dimensions and is assembled for domestic use, using natural convection or Forced convection system, an insulated enclosure that consumes one or more energy sources to obtain cooling.

Note: Based on the installation method, household refrigerators come in various types (freestanding, portable, wall-mounted, built-in, etc.).

3.1.2

Refrigerator

Refrigeration appliances used for storing food, which have at least one cold storage compartment.

3.1.3

Refrigerator-freezer A refrigeration appliance that has at least one refrigerator compartment and at least one freezer compartment.