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

**GB/T 37877-2025**

Replacing GB/T 37877-2019

**Intelligentization technology for intelligent household  
appliances - Particular requirements for refrigerators**

智能家用电器的智能化技术 电冰箱的特殊要求

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## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 37877-2019 "Special requirements for intelligent technology of intelligent household appliances and refrigerators" and is compatible with GB/T Compared with 37877-2019, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope has been changed, and the detection and evaluation method has been changed to the test method and the calculation method of the intelligence index and the star rating (see Chapter 1, Chapter 1 of the 2019 edition);
- b) The definition of "smart refrigerator" has been changed (see 3.1, 3.1 of the 2019 edition), and "control terminal", "food", "smart refrigerator" have been added.

Definition of "Food Information Management" and "Smart Refrigerator Food Information Management System" (see 3.2~3.5);

- c) Added data management requirements (see 4.2);
- d) Deleted automatic defrosting (see 4.2.2 of the 2019 edition);
- e) The temperature control has been changed (see 4.3.1, 4.2.1 of the 2019 edition);
- f) Added intelligent energy saving function, intelligent sterilization function and intelligent ice making function (see 4.3.1.2~4.3.1.4);
- g) The intelligent food management function has been changed (see 4.3.2.1~4.3.2.3, 4.2.3 of the 2019 edition);
- h) Added recipe recommendation function (see 4.3.2.4);
- i) Changed the fault alarm (see 4.3.3.1, 4.2.4 of the 2019 edition);
- j) Added system parameter self-correction function and abnormal event processing function (see 4.3.3.2 and 4.3.3.3);
- k) Changed online upgrade (see 4.3.3.4, 4.2.5 of the 2019 edition);
- l) Deleted third-party application services (see 4.2.6 of the 2019 version);
- m) Added general requirements for test methods (see 5.1);
- n) The test conditions have been changed (see 5.2, 5.2.1 of the 2019 edition);
- o) Added test methods for data management functions (see 5.3);
- p) The temperature control has been changed (see 5.4.1.1, 5.2.2 of the 2019 edition);
- q) Added test methods for intelligent energy saving function, intelligent sterilization function and intelligent ice making function (see 5.4.1.2~5.4.1.4);
- r) Deleted the automated frost test (see 5.2.3 of the 2019 edition);
- s) The test method for intelligent food management function has been changed (see 5.4.2, 5.2.4 of the 2019 edition);
- t) Changed the fault alarm test (see 5.4.3.1, 5.2.5 of the 2019 edition);
- u) Added the test method of parameter self-correction function and the test method of abnormal event handling function (see 5.4.3.2 and 5.4.3.3);
- v) Changed the online upgrade test (see 5.4.3.4, 5.2.5 of the 2019 edition);
- w) Deleted the third-party application service test (see 5.2.7 of the 2019 version);
- x) Deleted the intelligent function requirements (see 5.3.1 of the 2019 edition);
- y) The intelligent rating evaluation of refrigerators has been changed (see Chapter 6, 5.3.2

of the 2019 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Household Electrical Appliances (SAC/TC46).

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2019 as GB/T 37877-2019;
- This is the first revision.

Intelligent technology for smart home appliances Special requirements for refrigerators

## 1 Scope

This document specifies the terms and definitions, technical requirements, test methods, and calculation method and star rating of smart refrigerators. evaluate.

This document applies to smart refrigerators for household and similar purposes.

## 2 Normative references

GB 4343.1

GB/T 4343.2

GB/T 4706.13

GB/T 8059-2016

GB/T 28219-2018

GB/T 40979

GB/T 41789

### 3 Terms and definitions

The terms and definitions defined in GB/T 28219-2018, GB/T 8059-2016 and the following apply to this document.

#### 3.1

Refrigerators for household and similar purposes that apply intelligent technology and have intelligent capabilities and functions.

#### 3.2 control terminal

A device that can obtain smart home appliance information and implement smart home appliance application operations through a human-computer interaction interface.

[Source. GB/T 36426-2018, 3.7]

#### 3.3 Food

Various finished products and raw materials for human consumption or drinking, as well as items that are traditionally both food and Chinese medicinal materials.

Note. Items for therapeutic purposes are not included.

[Source. Food Safety Law of the People's Republic of China, Article 150, with amendments]

#### 3.4

Information management of various food data stored in smart refrigerators.