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

**GB/T 4706.121-2024**

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**Safety of household and similar electrical appliances - Part 121:  
Particular requirements for professional ice-cream makers  
(English Translation)**

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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 is Part 121 of GB/T 4706 "Safety of Household and Similar Electrical Appliances". GB/T 4706 has been published as follows part.

- Part 1: General requirements;
- Part 2: Particular requirements for electric irons;
- Part 121: Particular requirements for professional ice cream machines.

This document is equivalent to IEC 60335-2-118:2020 "Safety of Household and Similar Electrical Appliances Part 2-118. Professional Ice Cream Special Requirements for Machines.

The following minimal editorial changes were made to this document.

- The name of the standard was changed to "Safety of Household and Similar Electrical Appliances Part 121: Particular Requirements for Professional Ice Cream Machines", and the standard was enhanced.

Coordination of the quasi-system.

## Introduction

GB/T 4706 "Safety of Household and Similar Electrical Appliances" adopts most of IEC 60335. On this basis, GB/T 4706 refers to the structure of IEC 60335 is divided into several parts, consisting of general requirements and special requirements. Part 1 is general requirements, and the other parts are for products covered by special requirements, their safety requirements are general requirements used in combination with the special

requirements.

The requirements include supplements and modifications to the corresponding clauses in the general requirements to provide complete requirements for each product.

This document is the protection requirements for electrical, mechanical, thermal, fire and radiation risks when the appliance is used normally in accordance with the instructions.

This document also covers abnormal conditions that may occur during use and considers how electromagnetic interference may affect the safe operation of the equipment.

This document has taken into account the requirements specified in GB/T 16895 "Low Voltage Electrical Installations". The appliance is connected to the power supply in accordance with the electrical wiring rules.

requirements are coordinated.

If multiple functions of an appliance involve other parts of GB/T 4706, the other parts shall apply to the appliance separately as long as it is reasonable.

Each function. If applicable, consider the impact of one function on other functions.

When no additional requirements are given in other parts for hazards already included in this document, GB/T 4706.1 applies.

GB/T 4706 is a standard covering appliance safety and takes precedence over general standards/horizontal standards covering the same subject.

This document is used in conjunction with GB/T 4706.1-2024 "Safety of Household and Similar Electrical Appliances Part 1: General Requirements".

The part marked "applicable" in the document indicates that GB/T 4706.1-2024 "Safety of Household and Similar Electrical Appliances - Part 1: General Requirements" the corresponding clauses in the "Requirements" shall apply to this document; for the parts marked "replace" in this document, the clauses in this document shall prevail;

The "Add" part indicates that in addition to complying with the corresponding clauses in GB/T 4706.1-2024, the additional clauses in this document must also be complied with.

Clause; The part marked "modified" in this document indicates that the corresponding clauses of GB/T 4706.1-2024 are modified.

Safety of household and similar electrical appliances Part 121.

Special requirements for professional ice cream machines

## 1 Scope

This chapter of GB/T 4706.1-2024 is replaced by the following.

This document specifies the safety requirements for appliances used to make ice cream and handmade gelato.

This document applies to commercial use and use not intended for household use but with a rated voltage not exceeding 250V for single-phase appliances and 480V for other appliances.

Similar devices that could pose a danger to the public, such as devices used by non-professionals in shopping malls, convenience stores or farms.

The refrigeration condensing units of appliances covered by this document are usually self-contained, but some appliances may be remotely located.

This document also applies to the following types of appliances.

--- In the making of ice cream and similar pastries, a mixer undergoes a heating process before the refrigeration process in preparation for the preparation of the food.

---Apparatus for storing whipping cream mixture in refrigerated tanks and for whipping cream during transfer.

**Note 101:** Please note the following.

--- For equipment intended for use on vehicles, ships or aircraft, additional requirements may be required;

--- National management departments may impose additional requirements on equipment.

This document does not apply to.

---Appliances using flammable refrigerants in refrigeration systems;

---Household ice cream machine (GB/T 4706.13);

---Appliances designed for industrial use;

--- Apparatus intended for use in special locations, such as environments with corrosive or explosive gases (dust, steam or gas).

## 2 Normative references

Except for the following contents, this chapter of GB/T 4706.1-2024 applies.

Increase.

GB/T 4706.17-2024 Safety of household and similar electrical appliances Part 17: Particular requirements for motor-compressors (IEC 60335-2-34:2021, IDT) ISO 817:2014 Refrigerants-Designationandsafetyclassification Note. GB/T 7778-2017 Refrigerant numbering method and safety classification (ISO 817:2014, IDT) IEC 60335-2-34:2012 Safety of household and similar electrical appliances Part 2-34 Particular requirements for