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

GB/T 4706.111-2024

**Safety of household and similar electrical appliances-Part 111:
Particular requirements for commercial integrated kitchen
appliance**

家用和类似用途电器的安全 第111部分：商用整体厨房的特殊要求

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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 is Part 111 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.

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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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 111. Particular requirements for commercial kitchens

1 Scope

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

This document specifies the safety requirements for commercial kitchens.

This document is applicable to single-phase appliances installed and used in commercial kitchens. The rated voltage does not exceed 250V, and the rated voltage of other appliances does not exceed Special requirements for commercial kitchens with over 480V.

NOTE 101 Such appliances are used in commercial enterprises such as restaurants, food shops, hospitals, bakeries and butchers.

The electrical parts of appliances using other forms of energy are also within the scope of this document.

This document deals with the common hazards posed by this type of apparatus.

This document considers the possible mutual impact of the individual commercial appliances in a commercial kitchen after combination.

Note 102. Examples of single commercial appliances.

- Commercial electric fryers (GB/T 4706.33);
- Commercial electric steamers and convection ovens (GB/T 4706.34);
- Commercial electric cooking pots (GB/T 4706.35);
- Commercial electric water boilers and liquid heaters (GB/T 4706.36);
- Commercial electric hot griddles and electric griddles (GB/T 4706.37);
- Commercial electric food processing machinery (GB/T 4706.38);
- Commercial electric ovens and toasters (GB/T 4706.39);
- Commercial electric multi-purpose electric cooker (GB/T 4706.40);
- Commercial electric dishwashers (GB/T 4706.50);
- Commercial electric food and ceramic tableware warmers (GB/T 4706.51);
- Commercial electric stoves, ovens, ranges and range units (GB/T 4706.52);
- Commercial electric water bath warmers (GB/T 4706.62);
- Commercial electric rinsing tank (GB/T 4706.63);
- Commercial microwave ovens (GB/T 4706.90);