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

GB/T 4706.36-2024

Replacing GB 4706.36-2014

**Safety of household and similar electrical appliances-Part 36:
Particular requirements for commercial water electric boilers
and liquid heaters**

家用和类似用途电器的安全 第36部分：商用电开水器和液体加热器的特殊要求

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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 36 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 replaces GB 4706.36-2014 "Safety of household and similar electrical appliances - Particular requirements for commercial electric water boilers and liquid heaters" Compared with GB 4706.36-2014, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added terms and definitions for induction heating parts, functional surfaces and adjacent surfaces (see 3.106, 3.107, 3.108);
- Changed the requirements for the degree of protection of appliances under different conditions of use (see 6.2, 6.2 of the 2014 edition);
- Added the content that should be marked on appliances equipped with induction heating components, and the reminders of non-ionizing electromagnetic radiation, dangerous voltage and high temperature surfaces Symbols (see 7.1, 7.6);
- Added requirements for appliances with induction heating components (see 7.12, 7.12.1, 7.12.4, 10.1, 11.4, 19.3, 19.13, 19.101, 22.102 and 22.110);
- Added the requirements for measurement using the test probe of Figure 101 (see 11.3);
- Added requirements for power cords intended for outdoor use (see 25.7).

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 standards it replaces are as follows.

- First issued in 1997 as GB 4706.36-1997, first revised in 2014;
- This is the second revision.

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 the corresponding clauses in GB/T 4706.1-2024 are applicable to this document; the part marked "replaces" in this document indicates that the corresponding clauses in GB/T 4706.1-2024 are applicable to this document.

For the parts marked as "added" in this document, in addition to complying with GB/T 4706.1-2024, the provisions in this document shall prevail.

In addition to the corresponding clauses, the clauses added in the clauses of this document must also be complied with; the part of this document marked "modified" means that in GB/T 4706.1- The relevant provisions of 2024 will be modified.

Safety of household and similar electrical appliances Part 36.Commercial electric water boilers and liquids Special requirements for heaters

1 Scope

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

This document specifies the safety and security requirements for commercial electric water boilers and liquid heaters for boiling or heating liquids for the manufacture of beverages, not intended for household use.