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

GB/T 4706.120-2024

**Safety of household and similar electrical appliances - Part 120:
Particular requirements for UV radiation water treatment
appliances**

(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 120 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 60335-2-109:2016 "Safety of Household and Similar Electrical Appliances Part 2-109.Ultraviolet Radiation Particular requirements for water treatment appliances.

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 120: Special Requirements for Ultraviolet Radiation Water Treatment Appliances Request for information" to enhance the coordination of the standard system.

Introduction

GB/T 4706 "Safety of Household and Similar Electrical Appliances" mostly adopts 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 for use.

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 120: Ultraviolet radiation water treatment appliances Special requirements

1 Scope

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

This document specifies the safety requirements for ultraviolet radiation water treatment appliances for household and similar purposes.

This document applies to ultraviolet radiation water treatment appliances for household and similar purposes with a rated voltage not exceeding 250V.

This document also applies to appliances intended for normal household use but which may nevertheless present a hazard to the public, such as those intended for use in shops,

light industry and agriculture.

Equipment used by non-professionals in the field.

This document deals with appliances that present common hazards that may be encountered by all people in and around the home.

However, in general, this document does not cover.

---People (including children) - due to a physical, sensory or mental impairment, or - Due to lack of experience and knowledge, Situations where the appliance cannot be used safely without supervision or instruction.

--- Condition of children's play equipment.

Note 101: Pay attention to the following.

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

--- National health and family planning departments, national labor protection departments and similar departments have set additional requirements for equipment.

Note 102: This document does not apply to.

--- Pumps (IEC 60335-2-41);

--- Aquarium lamps (IEC 60598-2-11);

--- Luminaires for swimming pools and similar locations (IEC 60598-2-18);

--- Appliances intended for professional use;

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

2 Normative references

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

GB/T 16422.2-2014 Plastics laboratory light source exposure test method Part 2: Xenon arc lamp (ISO 4892-2.

2006, IDT)

GB/T 16422.4-2014 Plastics Laboratory Light Source Exposure Test Methods Part 4: Open Carbon Arc Lamp (ISO 4892-4.

2004, IDT)