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

GB/T 4706.28-2024

Replacing GB 4706.28-2008

**Safety of household and similar electrical appliances - Part 28:
Particular requirements for range hoods and other cooking
fume extractors
(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 28 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 4706.28-2008 "Particular requirements for safety of range hoods for household and similar electrical appliances" and Compared with GB 4706.28-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added "other cooking fume extraction devices" to the scope (see Chapter 1);
- Changed the user groups not considered (see Chapter 1, Chapter 1 of the 2008 edition);
- Added the term and definition of "downstream system" (see 3.102);
- Added "For down-discharge systems, the tests in Chapters 11 and 13 are carried out at an ambient temperature of $40\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ " (see 5.7);
- The test conditions have been changed (see 5.10, 5.10 of the 2008 edition);
- Added "Down-exhaust systems installed above the cooking surface are tested according to the test method for range hoods" (see 5.101);
- Added relevant requirements for the marking and description of lighting (see 7.1, 7.6, 7.12, 7.14, 7.15);
- Added the requirement for cautionary instructions on easily accessible parts that may become hot (see 7.12);
- Added the requirements for installation distance in the installation instructions (see

7.12.1);

- Added test requirements for appliances where the controller and filter are installed separately from the fan (see 11.2);
- Changed the test requirements for temperature rise of the glass shell of lighting lamps (see 11.8, 11.8 of the 2008 edition);
- Added the temperature rise requirements for down-discharge systems (see 11.8);
- Added test requirements for external components of fans installed on the external structure of buildings (see 15.1.1);
- Added overflow test requirements for key components of down-drain systems (see 15.2);
- Added mechanical hazard requirements for automatically moving parts (see 20.101);
- Changed the structural requirements for cleaning (see 22.102, 22.102 of the 2008 edition);
- Added structural requirements for mounting screws and other fixing devices (see 22.103);
- Added structural requirements for halide lamp shields (see 22.104);
- Note is changed to text, material category is changed to "HBF" (see 30.101, 30.101 of the 2008 edition).

This document is equivalent to IEC 60335-2-31:2018 "Safety of Household and Similar Electrical Appliances Part 2-31.Range Hoods and Their Use" Special requirements for cooking fume extraction devices.

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 28: Range Hoods and Other Cooking Fume Extraction Devices Special Requirements for Standardization" to enhance the coordination of the standard 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 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 the corresponding clauses of GB/T 4706.1-2024 shall be modified.

Safety of household and similar electrical appliances Part 28: Range hoods and other cooking fumes Special requirements for suction and exhaust devices

1 Scope

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

This document specifies the safety requirements for electrically operated range hoods and other cooking fume extraction devices for household and similar purposes.

This document is applicable to appliances with a rated voltage not exceeding 250V and