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

GB/T 4706.87-2024

Replacing GB 4706.87-2008

**Safety of household and similar electrical appliances - Part 87:
Particular requirements for commercial spray extraction
machines**

家用和类似用途电器的安全 第87部分：商用喷雾抽吸机的特殊要求
(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 87 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 4706.87-2008 "Safety of household and similar electrical appliances - Particular requirements for industrial and commercial spray suction appliances" Compared with GB 4706.87-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

--- Added general requirements for safe operation of equipment (see Chapter 4);

--- Added requirements for storage and use of test solutions (see 5.101);

--- Changed the requirements for equipment marking and the contents of the instructions (see 7.1, 7.12, 7.1, 7.12 of the 2008 edition);

--- Added requirements for power cleaning heads, accessory sockets, signs, symbols for power cleaning heads of water suction cleaning equipment and warning signs in the instructions warning, noise information, vibration information (see 7.1.101, 7.1.102, 7.6, 7.12.101, 7.12.102 and 7.12.103);

--- Deleted the marking method of switches (see 7.9 of the 2008 edition);

- Changed the requirements for starting electric appliances (see Chapter 9, Chapter 9 of the 2008 edition);
- Deleted the provisions on temperature rise test wiring and water temperature (see 11.3 and 11.4 of the 2008 edition);
- Added heating requirements (see 11.7);
- Increased transient overvoltage requirements (see Chapter 14);
- Added requirements for rinse agent characteristics, water suction cleaning machines and power cleaning heads (see 15.2 and 15.101);
- Changed the test method for compliance (see 15.2, 15.2 of the 2008 edition);
- Added test requirements for current-carrying hoses (see 16.3);
- Changed the durability requirements (see Chapter 18, Chapter 18 of the 2008 edition);
- Added requirements under abnormal working conditions (see 19.1);
- Changed the test requirements for abnormal operation (see 19.7, 19.10, 19.101, 19.7, 19.10 and 19.101 of the 2008 edition);
- Deleted the pressure switch test (see 19.102 of the 2008 edition);
- Added the requirement that the power cleaning head is not subjected to stability and mechanical hazard tests (see 20.1);
- Deleted the mechanical, chemical or thermal stress requirements for appliance components (see 20.101 of the 2008 edition);
- Added test requirements for components such as current-carrying tubes (see 21.102 to 21.108);
- Changed the requirements for waterproofing and live power sockets (see 22.6, 22.101 and 22.102, 22.1 and 22.101 of the 2008 edition) and 22.102);
- Added requirements for appliance switches (see 22.103 and 22.104);
- Deleted the requirements for switches in frequent use and component connections (see 24.1 and 24.3 of the 2008 edition);
- Added component requirements (see 24.1.3 and 24.7);
- Increased requirements for overload operation of appliances (see 24.101);
- Deleted the requirements for IPX4 and above appliances (see 25.1 of the 2008 edition);
- Added the types of power cords and test conditions for IPX4 type appliance input sockets (see 25.7 and 25.15);
- Added provisions for micro-environment levels (see 29.2);

- Added inapplicable conditions for heat resistance and flame retardancy (see 30.2.3);
- Added current-carrying tube wear test device, current-carrying tube bending test device, hose freezing treatment shape and hose removal from the refrigerator Illustration of the bending shape after (see Figures 102, 103, 104 and 105);
- Deleted the referenced normative standards (see Appendix A of the 2008 edition);
- Added appliances powered by rechargeable batteries and non-rechargeable batteries charged inside the appliance or batteries charged outside the appliance and relevant technical requirements for noise emission and vibration emission (see Appendix B, Appendix S, Appendix AA, Appendix BB).

This document is equivalent to IEC 60335-2-68:2016 "Household and similar electrical appliances - Safety - Part 2-68.Commercial spray suction Special Requirements for Machines.

The following minimal editorial changes were made to this document.

- Change the name of the standard to "Safety of Household and Similar Electrical Appliances Part 87: Particular Requirements for Commercial Spray Suction Machines", add Strengthen the coordination of the standards system;
- Add the table number and title to the table below 15.2 in IEC 60335-2-68:2016.

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.