

ICS 13.120
CCS K 09



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

GB/T 4706.124-2024

**Safety of household and similar electrical appliances - Part 124:
Particular requirements for commercial vacuum packaging
appliances**

(English Translation)

Issued on: October 26, 2024

Implemented on: November 1, 2026

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 General Requirements
5 General conditions for testing
6 Categories
7 Markings and instructions
8 Protection against contact with live parts
9 Starting of electric appliances
10 Input power and current
11 Fever
12 Empty Chapter
13 Leakage current and electrical strength at operating temperature
14 Transient overvoltage
15 Moisture resistance
16 Leakage current and electrical strength
17 Overload protection of transformers and related circuits
18 Durability
19 Abnormal work
20 Stability and mechanical hazards
21 Mechanical strength
22 Structure
23 Internal Wiring
24 Components
25 Power connection and external cord
26 Terminals for external conductors
27 Grounding measures
28 Screws and connections
29 Clearances, creepage distances and solid insulation
30 Heat and flame resistant

31 Rust Prevention

32 Radiation, toxicity and similar hazards

Appendix

Reference

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 124 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;
- Part 122: Particular requirements for furniture with electric components;
- Part 123: Particular requirements for electric clothes drying machines;
- Part 124: Particular requirements for commercial vacuum packaging appliances.

This document is modified to adopt IEC 60335-2-119:2021 "Household and similar electrical appliances - Safety - Part 2-119.Commercial vacuum packaging Special Requirements for Packing Equipment.

The technical differences between this document and IEC 60335-2-119:2021 and their reasons are as follows.

- This document is used in conjunction with the general requirements standard GB/T 4706.1-2024, which is equivalent to IEC 60335-1:2016 (Section 5.2 Edition), rather than IEC 60335-1:2020 (6th Edition) used in conjunction with IEC 60335-2-119:2021;
- The three notes on appliance examples, additional requirements and non-applicable scope in Chapter 1 are the main text in IEC 60335-2-119:2021 this is to keep consistent with the writing of GB/T 4706.1-2024;
- Chapter 12 is a blank chapter to maintain consistency with the writing of GB/T 4706.1-2024.

The following editorial changes have been made to this document.

- The name of the standard is changed to "Safety of Household and Similar Electrical

Appliances Part 124: Particular Requirements for Commercial Vacuum Packaging
Appliances Request for approval, and enhance the coordination of the standard system;

--- Deleted the informative Appendix AA.

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 contains the protection requirements for electrical, mechanical, thermal, fire and radiation risks when the appliance is used normally according to 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 of 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 and consistent.

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, needs to consider the impact of one function on other functions.

When additional requirements are not 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 the provisions in GB/T 4706.1-2024, the 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" indicates that in GB/T 4706.1-the relevant provisions of 2024 will be modified.

Household and similar electrical appliances - Safety - Part 124.

Special requirements for commercial vacuum packaging equipment

1 Scope

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

This document covers the safety of commercial electrical packaging appliances that use vacuum conditions for the preservation of food.

This document applies to commercial vacuum packaging for single-phase appliances with a rated voltage not exceeding 250V and other appliances with a rated voltage not exceeding 480V appliance.

These appliances are not intended for household or similar use. Rather, they are used in areas not open to the public, such as restaurants, canteens, hospital kitchens, etc.

bakeries, and commercial businesses such as bakeries and slaughterhouses for the commercial preservation of food.

NOTE 101 Examples of appliances falling within the scope of this document are.

---Chamber type vacuum packaging equipment;

---Vacuum packaging equipment.

These devices may have a membrane seal.

This document also addresses the hygienic aspects of appliances.

In practice, this document covers common hazards that users will encounter with various appliances. However, in general, this document the situation of children playing with utensils is not taken into account.

Note 102: Pay attention to the following.

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

--- The state may specify additional requirements for appliances equipped with pressure vessels;

--- National management departments may impose additional requirements on equipment.