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

GB/T 4706.47-2024

Replacing GB 4706.47-2014

**Safety of household and similar electrical appliances - Part 47:
Particular requirements for electrical heating appliances for
breeding and rearing animals**
(English Translation)

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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 working conditions	
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 resistance	

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 47 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 4706.47-2014 "Safety of household and similar electrical appliances - Particular requirements for electric heaters for animal breeding and feeding" Compared with GB 4706.47-2014, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The colors of two symbols in the signs and instructions have been changed (see 7.6, 7.6 of the 2014 edition);
- b) Added 7.12.9 Not Applicable (see 7.12.9);
- c) Added the test also applicable to appliances with infrared bulbs, and the note is transferred to the main text (see 19.2, 19.2 of the 2014 edition);
- d) The notes to 21.101 and 22.104 are transferred to the main text (see 21.101 and 22.104, 21.101 and 22.104 of the 2014 edition).

This document is equivalent to IEC 60335-2-71:2018 "Safety of Household and Similar Electrical Appliances Part 2-71. Animal Reproduction and Feeding Special requirements for electric heaters for aquaculture.

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 47: Characteristics of electric heaters for animal breeding and feeding Special Requirements for Standardization and 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 in

GB/T 4706.1-the relevant provisions of 2024 will be modified.

Safety of household and similar electrical appliances Part 47: Electric heaters for animal breeding and feeding Special requirements

1 Scope

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

This document specifies electric heaters for animal breeding and rearing, such as radiants, chick warming boxes, egg incubators, chick rearing devices and Safety requirements for heating panels for use with animals.

This document applies to single-phase electric heaters with a rated voltage not exceeding 250V and other electric heaters with a rated voltage not exceeding 480V.

NOTE 101 This document applies to electric heaters equipped with electric motors intended for use in poultry breeding and rearing.

Note 102: Pay attention to the following.

- Additional requirements are required for appliances used in vehicles, ships or aircraft;
- National management departments may impose additional requirements on equipment.

Note 103: This document does not apply to.

- Apparatus specially designed for industrial use;
- Appliances intended for use in special environments with corrosive or explosive gases (e.g. dust, steam or methane);
- Heating device embedded in the floor;
- Soft film heating elements for room heating (GB/T 4706.82);
- Indoor heaters (GB/T 4706.23).

2 Normative references

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

GB/T 31523.1-2015 Safety information identification system Part 1: Signs (ISO 7010:2011, MOD) Note. There is no technical difference between the referenced content of GB/T 31523.1-2015 and the referenced content of ISO 7010:2011.

ISO 3864-1 Graphical symbols - Safety colours and safety signs - Part 1: Design principles for safety signs and safety markings (Graphicalsymbols-Safetycoloursandsafety signs-Part 1: Designprinciplesforsafety signsand safety markings Note. GB/T 2893.1-2013 Graphical symbols, safety colors and safety signs Part 1: Design principles for safety signs and safety