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

GB/T 4706.23-2024

Replacing GB 4706.23-2007

**Safety of household and similar electrical appliances - Part 23:
Particular requirements for room heaters**

家用和类似用途电器的安全 第23部分：室内加热器的特殊要求

(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 23 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 4706.23-2007 "Safety of Household and Similar Electrical Appliances Part 2: Particular Requirements for Room Heaters" Compared with GB 4706.23-2007, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The instructions for using the device for children and other groups have been changed (see Chapter 1, Chapter 1 of the 2007 edition);
- b) Added the content related to "ceiling mounted light heating appliances" (see 3.106, 7.1, 7.12, 7.15, 8.1, 11.2, 19.1, 19.115, 21.1, 22.39);
- c) Added content related to vehicle heaters (see 3.107, 7.1, 7.12.1, Chapter 11, Chapter 19, Chapter 21, 22.112, Chapter 24, 25.7, 29.2, 30.1, Figure 103, Table 102);
- d) Added the description that the test is carried out on a single sample (see 5.2);
- e) Added exemption for warning signs for heaters installed under benches (see 7.1);
- f) Added requirements for switches and control devices (see 7.10);

- g) Added instructions for indoor heaters (see 7.12 and 7.12.1);
- h) Added the maximum rated power of heating lamps and the font height requirements of the types (see 7.14);
- i) Added the requirements for insulation against electric shock (see 8.2);
- j) Added test installation details for various types of heaters (see 11.2);
- k) Added the permission to use surface probe to measure the temperature rise of external accessible surfaces (see 11.3);
- l) Added the requirement of continuous monitoring of temperature rise (see 11.8, Table 101);
- m) Added temperature rise requirements for heaters installed only under church pews and fixed heaters installed in front of sockets (see 11.8);
- n) Added a flooding test for appliances with grilles and mounted on the ground (see 15.2);
- o) Added additional description of abnormal conditions for fixed heater test (see 19.103);
- p) The abnormal test of fan heater has been changed (see 19.107, 19.113, 19.107, 19.113 of the 2007 edition);
- q) Changed the description of the abnormal test paper for portable fan heaters (see 19.108, 19.108 of the 2007 edition);
- r) Changed the abnormal test for portable heaters (see 19.112, 19.112 of the 2007 edition);
- s) Added abnormal test for fan heater (see 19.117);
- t) Added the inapplicability of the stability requirements for fixed heaters (see 20.1);
- u) Added mechanical strength requirements and tests for portable fan heaters and heaters intended to be installed in the floor (see 21.104, 21.107);
- v) Added structural requirements for fixed heaters that can be installed in front of the socket and determination of the appliance's open state (see 22.2, 22.109);
- w) Added requirements for heaters intended to be installed under church pews and for normally open switches that rely on contact with the ground to maintain the closed position. Structural requirements (see 22.110, 22.111);
- x) Added requirements for power cords for portable oil-filled radiators and heaters intended for outdoor use (see 25.7);
- y) The description of fan heaters that are required to undergo flame retardancy and heat resistance tests has been changed (see 30.101, 30.101 of the 2007 edition).

This document is equivalent to IEC 60335-2-30:2021 "Safety of Household and Similar

Electrical Appliances Part 2-30.Room Heaters" Special Requirements.

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 23: Particular Requirements for Room Heaters", strengthen the standard Coordination of the quasi-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