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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 15470.1-2026

Replacing GB/T 15470-2002

Household electric direct-acting room heaters - Methods for measuring performance - Part 1: General provisions

家用直接作用式房间电加热器 性能测试方法 第1部分：通用规定

(English Translation)

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Preview: page 1 of 5 shown, 14 in the full document. Complete English PDF, instant download:
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Table of Contents

Preface
Introduction
1 Scope
2 Normative References
3 Terms and Definitions
4 Classification 3.
5 Measurement Items
6 General conditions for measurement
8 Temperature rise of the vent grille and outer surface 6.
9 Temperature rise of the surface surrounding the heater 6.
10 Heater heating time
11 Indoor temperature stability
12 Temperature drop
13 Freeze protection temperature
14 Inrush current
15 Thermal radiation effect
16 Determination of Effective Power
17 Verification of the manufacturer's declared maximum room temperature value
Appendix A (Normative) Climate Laboratory
Appendix B (Informative) Information provided by sales points
Appendix C (Informative) Test Report Format
Reference

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 1 of GB/T 15470, "Performance Test Methods for Household Direct-Action Room Electric Heaters". GB/T 15470 the following sections have been released.

---Part 2: Additional provisions for the measurement of radiation coefficients;

Preview: page 2 of 5 shown, 14 in the full document. Complete English PDF, instant download:
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---Part 3: Additional provisions for the measurement of radiation efficiency.

This document supersedes GB/T 15470-2002 "Performance Test Methods for Household Direct-Action Room Electric Heaters" and is consistent with GB/T 15470-Compared to 2002, aside from structural adjustments and editorial changes, the main technical changes are as follows.

---Added the manufacturer's maximum declared room temperature value and applicable description to the "Measurement Items" section (see Chapter 5);

---A new chapter on "Verification of Manufacturer's Highest Room Temperature Declaration Value" has been added (see Chapter 17);

---The product model naming method has been removed (see Appendix E of the 2002 edition).

This document adopts IEC 60675:2018 "Performance test method for direct-acting room heaters for household use".

The following minimal editorial changes have been made to this document.

---The standard name has been changed to "Performance Test Methods for Household Direct-Action Room Electric Heaters Part 1: General Provisions", enhancing...

Coordination of the standards system.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Household Appliances (SAC/TC46).

Introduction

GB/T 15470, "Performance Test Methods for Direct-Acting Room Electric Heaters for Households," aims to standardize the performance of direct-acting room electric heaters.

The performance testing method is proposed to consist of the following three parts.

---Part 1: General Requirements. The purpose is to specify the performance testing methods for household direct-acting room heaters.

---Part 2: Additional Regulations for the Measurement of Radiation Coefficient. The purpose is to regulate the radiation coefficient of household direct-acting room heaters.

Numerical measurement methods.

---Part 3: Additional Regulations for Radiation Efficiency Measurement. The purpose is to

Preview: page 3 of 5 shown, 14 in the full document. Complete English PDF, instant download:
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regulate the radiation efficiency of household direct-acting room heaters.

Rate measurement methods.

Household direct-acting room heater Performance Testing Methods Part 1: General Requirements

1 Scope

This document describes the performance testing methods for household direct-acting room electric heaters (hereinafter referred to as "heaters").

This document applies to portable, stationary, fixed-mount, and recessed heaters.

This document does not apply to.

---Storage room heater (IEC 60531);

---Heats installed within the building structure;

---Central heating system;

---Wallpaper, blankets, or curtains equipped with flexible electric heating elements.

This document describes the basic characteristics of direct-acting room electric heaters and specifies the methods for testing these characteristics for user reference.

This document does not specify performance characteristic requirements.

Note: This document does not cover.

---Safety requirements (IEC 60335-2-30);

---Noise from fan-type heaters (IEC 60704-2-2).

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

IEC 60584-1 Thermocouples - Part 1: Reference tables Note. GB/T 16839.1-2018 Thermocouples Part 1: Electromotive Force Specifications and Tolerances (IEC 60584-1:2013, IDT)

Preview: page 4 of 5 shown, 14 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-15470-1-2026

3 Terms and Definitions

The following terms and definitions apply to this document.

direct-acting room heater when a room needs heat, it can convert electrical energy into heat energy and immediately deliver the heat energy to the appliances in the room.

plate heater

Note 1: Some plate heaters are equipped with an oil-filled structure.

Note 2: Some plate heaters include columnar structures.

convection heater

During normal use, at least one unseen part of the heater that comes into contact with the room's circulating air experiences a temperature rise exceeding 75K.

Natural convection is used to discharge air from one or more outlets.

Note: "Invisible parts" refers to parts that are not visible from 2m in front of the heater and 1.2m above the ground after the heater is installed.

Preview: page 5 of 5 shown, 14 in the full document. Complete English PDF, instant download:
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