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**GB**

NATIONAL STANDARD OF THE  
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**GB/T 4706.48-2024** / IEC 60335-2-98:2008

Replacing GB 4706.48-2009

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**Safety of Household and Similar Electrical Appliances - Part**

**48: Particular Requirements for Humidifiers**

家用和类似用途电器的安全 第 48 部分：加湿器的特殊要求  
(IEC 60335-2-98:2008, Household and similar electrical appliances - Safety -  
Part 2-98: particular requirements for humidifiers, IDT)

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## Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2020 *Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

This document is Part 48 of GB/T 4706 *Safety of Household and Similar Electrical Appliances*. GB/T 4706 has issued the following parts:

---Part 1: General Requirements;

---Part 2: Particular Requirements for Electric Irons;

.....

---Part 121: Particular Requirements for Professional Ice-cream Makers.

This document serves as a replacement for GB 4706.48-2009 *Household and Similar Electrical Appliances - Safety - Particular Requirements for Humidifiers*. In comparison with GB 4706.48-2009, apart from structural adjustments and editorial modifications, the main technical changes are as follows:

---The inapplicability of this document in the Scope is modified (see Chapter 1; Chapter 1 of Version 2008);

---The marking requirements for appliances with water vapor temperature exceeding 60 °C are added (see 7.1);

---The 5597 marking symbol in IEC 60417:2002 is added (see 7.6);

---The location requirements for water vapor related markings of appliances are added (see 7.15).

This document identically adopts IEC 60335-2-98:2008 *Household and Similar Electrical Appliances - Safety - Part 2-98: Particular Requirements for Humidifiers*.

This document makes the following minimal editorial modification:

---The title of the Standard is modified into *Safety of Household and Similar Electrical Appliances - Part 48: Particular Requirements for Humidifiers* to enhance the coordination of the standard system.

Please be noted that certain content of this document may involve patents. The institution issuing this document does not undertake the responsibility of identifying these patents.

This document was proposed by China National Light Industry Council.

This document shall be under the jurisdiction of National Technical Committee 46 on Household Electric Appliances of Standardization Administration of China (SAC/TC 46).

# Safety of Household and Similar Electrical Appliances - Part

## 48: Particular Requirements for Humidifiers

### 1 Scope

This Chapter of GB/T 4706.1-2024 is REPLACED by the following:

This document specifies the safety of electric humidifiers for household and similar purposes, with a rated voltage of no more than 250 V for single-phase appliances and no more than 480 V for other appliances.

**NOTE 101:** the following appliances are within the scope of application:

- appliances for atomizing water;
- appliances for evaporating water by heating;
- appliances for blowing air through a humid medium.

Humidifiers that are not intended for general household use but may still cause danger to the public, such as humidifiers intended for use by non-professionals in shops, light industry and farms, also fall within the scope of this document.

As far as practical matters are concerned, the common hazards of humidifiers involved in this document are those that all people may encounter in residences and residential surroundings. However, in general, this document does not take into account:

- The following groups (including children)
  - Due to physical, sensory or mental impairments; or
  - Due to lack of experience and knowledge;

The situation where they cannot safely use the appliances when unsupervised or uninstructed.

- Children playing with the appliances.

**NOTE 102:** pay attention to the following situations:

- for humidifiers intended for use in vehicles, ships or aircrafts, additional requirements may be required;
- the relevant national management departments may stipulate additional requirements for the appliances.

**NOTE 103:** this document does not apply to:

- liquid heaters (IEC 60335-2-15);
- humidifiers intended for use in heating, ventilation or air conditioning systems (IEC 60335-2-88);
- medical electrical equipment (IEC 60601);
- industrial-specific equipment;
- humidifiers intended for use in special environments where corrosive or explosive gases (such as dust, water vapor or methane) are often produced.

## 2 Normative References

This Chapter of GB/T 4706.1-2024 is APPLICABLE.

## 3 Terms and Definitions

Except for the following, this Chapter of GB/T 4706.1-2024 is APPLICABLE.

### 3.1.6 ADDED:

**NOTE 101:** for electrode-type humidifiers, if the current is not specified for the appliances, then, the rated current is calculated through the rated voltage and the average value of the input power in the first 2 minutes during operation. The appliances operate under normal operating conditions at the rated voltage.

### 3.1.9 REPLACED:

#### **normal operation**

The appliances shall operate under the following conditions:

As required by the instructions for use, the appliances are filled with the maximum amount of water. Unless the humidifiers are connected to the water supply pipeline and the water addition is automatically controlled.

For electrode-type humidifiers, the resistivity of water shall be approximately  $500 \Omega \cdot \text{cm}$  at  $20^\circ\text{C}$ .

**NOTE 101:** the electric conductivity is obtained by adding sodium chloride to water.

### 3.101 electrode-type appliance

An appliance that heats a liquid by passing an electric current through a conductive liquid.

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