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

GB/T 23127-2020

**Electric appliances connected to the water mains - Avoidance
of back siphonage and failure of hose-sets**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 23127-2008 "Electrical appliances connected to water sources to avoid siphon and hose assembly failure", and GB/T 23127-

Compared to.2008, the main technical changes except for editorial changes are as follows.

--- Part of the text in the scope was revised to Note 1 and Note 2 (see Chapter 1, Chapter 1 of the.2008 edition);

--- Updated the version of normative references (see Chapter 2, Chapter 2 of the.2008 edition);

--- Some notes were revised to the main text (see 3.10, 5.2, 6.3, 7.2 and Appendix A,.2008 edition of 3.10, 5.2, 6.3, 7.2 and

Appendix A);

--- Increased gasoline model requirements (see 9.3).

This standard uses the translation method equivalent to adopting IEC 61770..2015 "Electrical appliances connected to water sources to avoid siphon and hose assembly failure".

The documents in China that have a consistent correspondence with the normatively cited international documents in this standard are as follows.

--- GB/T 14536.9-2008 Special requirements for electric water valves for household and similar electrical automatic controllers (including mechanical requirements

Seeking) (IEC 60730-2-8..2003, IDT)

Please note that some content of this document may involve patents. The issuer of this document does not assume responsibility for identifying these patents.

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

This standard is under the jurisdiction of the National Household Appliance Standardization Technical Committee (SAC/TC46).

This standard was drafted by: China Household Electrical Appliances Research Institute, Io Smith (China) Water Heater Co., Ltd., Taizhou City Quality and Technical Supervision

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1 Scope

This standard specifies the requirements for household and similar electrical appliances to prevent non-drinking anti-siphon flow into the water source, and also specifies the connection of such appliances

The requirements of the hose assembly for water supply to the water pressure not exceeding 1MPa.

Note 1. Similar uses include appliances installed in canteens, restaurants, laundries and public places.

Note 2. This standard does not apply to the following appliances.

- Utensils for dry cleaning;
- Medical appliances;
- Industrial appliances;
- Water heater integrated in water supply system;
- Water cooler integrated in the water supply system.

Note 3. The connection between the appliance and the water source can be temporary or permanent use.

Note 4. "Water source" also includes water supply from water supply tanks or similar systems.

Note 5. The relevant national regulatory authority may also require the prevention of contamination of drinking water due to inappropriate materials upstream of the anti-reverse flow device.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article

Pieces. For the cited documents without date, the latest version (including all amendments)

applies to this document.

IEC 60730-2-8 Household and similar electrical automatic controllers Part 2-8. Particular requirements for electric water valves, including mechanical requirements

(Automatic electrical controls for household and similar use-Part 2-8.
Particular requirements for-

electrically operated water valves, including mechanical requirements)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Potable water

It is obtained directly from drinking water sources and keeps the water in the closed-loop system in front of the anti-backflow device.

3.2

Non-potable water

Water flowing out of the closed-loop system after flowing through the anti-backflow device.

3.3

Backflow prevention device

A device to prevent non-potable water from counter-currently polluting potable water.

Note. For example, air gaps, dynamic anti-backflow devices and pipeline interrupters.