

ICS 97.040.99  
CCS Y63



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

**GB/T 17988-2024**

Replacing GB/T 17988-2008

**Performance requirements and test methods for tableware  
disinfection cabinets**

食具消毒柜性能要求和试验方法

**Issued on: August 23, 2024**

**Implemented on: September 1, 2026**

**Issued by: State Administration for Market Regulation;  
Standardization Administration of the PRC**

## Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Technical requirements

### 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 is required. This document replaces GB 17988-2008 "Safety and Hygiene Requirements for Tableware Disinfection Cabinets". Compared with GB 17988-2008, In addition to the integration and editorial changes, the main technical changes are as follows:

- a) Deleted the contents related to electrical safety (see Chapter 7 to Chapter 31 of the.2008 edition);
- b) The terms "normal operation" and "operating cycle" (see 3.109 of the.2008 edition) have been deleted, and the terms "disinfection effect" and "anti-bacteria", "mildew prevention", "cleaning function", "dryness index", "odor removal" (see 3.9, 3.12, 3.14, 3.15, 3.16);
- c) Added health and safety requirements (see 4.1);
- d) Added optional functions (see 4.3);
- e) Changed the labeling requirements for disinfection effect levels (see A.2, AA.1.2 of the.2008 edition);
- f) The "Disinfection Effect Microbial Killing Test Method" has been changed (see Appendix C, Appendix BB and Appendix CC of the.2008 edition);
- g) Added "Test method for cleaning function" (see Appendix D);
- h) Added "Drying function test method" (see Appendix E);
- i) Added "Specifications and Quantities of Tableware" (see Appendix H). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by China Light Industry Federation. This document is under the jurisdiction of the

National Technical Committee for Standardization of Household Electrical Appliances (SAC/TC 46). This document was drafted by: China Household Electrical Appliance Research Institute, China Center for Disease Control and Prevention, Institute of Environmental and Health-related Product Safety, Guangdong Kangbao Electric Appliance Co., Ltd., Foshan Shunde Midea Washing Appliance Manufacturing Co., Ltd., Qingdao Haier Smart Kitchen Appliance Co., Ltd., Zhejiang Supor Kitchen & Bathroom Appliances Co., Ltd., Hangzhou Robam Appliances Co., Ltd., Jiahe (Zhejiang) Inspection and Testing Co., Ltd., China Home Furnishing Research Institute (Beijing) Testing and Certification Co., Ltd., Guangdong Academy of Sciences Institute of Microbiology (Guangdong Microbiological Analysis and Testing Center), Vantage Co., Ltd. Company, Ningbo Fotile Kitchenware Co., Ltd., Guangdong Haihua Technology Co., Ltd., Zhuhai Gree Electric Appliances Co., Ltd., Zhongshan Senai Electric Co., Ltd., Guangdong Suoqi Industrial Co., Ltd., Zhejiang Sacon Electric Co., Ltd., Guangdong Maytech Electric Co., Ltd., Guangdong Macro GAS APPLIANCES LIMITED. The main drafters of this document are. Yan Ling, Zhang Qingling, Li Xia, Li Yongguang, Xiong Haoping, Wang Tao, Guan Kuorong, Yang Jianjun, Xu Lei, Yao Yanchun, Yue Jingsong, Xie Xiaobao, Wan Xiangwu, Chen Songjun, Zhang Jinchuan, Liu Hongtao, Shu Dadong, Liu Cheng, Xu Jiebo, Xie Yongjun, Li Xiaozhong, Li Peng, Li Yi, Li Xiaomin. The previous versions of this document and the documents it replaces are as follows: --First issued as GB 17988-2000 in.2000, first revised in.2004, and second revised in.2008; --This is the third revision. Performance requirements and test methods for tableware disinfection cabinets

## 1 Scope

GB/T 17988-2024 is the Chinese performance standard for tableware disinfection cabinets, the heated or ultraviolet cabinets that are a standard kitchen appliance in China and almost unknown elsewhere. Because the whole purpose of the appliance is a microbiological claim, the standard is built around proving it: the classification of the cabinets by disinfection principle and by grade, the requirements on the disinfection performance expressed as the log reduction achieved against the specified test organisms and the position within the cabinet at which it must be achieved, which is the part that separates a working cabinet from one that only heats the front, the temperature and time or the ultraviolet dose delivered, the drying performance, the energy consumption, the noise, the requirements on the controls and the safety interlocks and on ozone where it is generated, together with the test methods including the microbiological procedure, the marking and the instructions. The 2024 edition replaces GB/T 17988-2008 and takes effect in September 2026.

This document specifies the health and safety, disinfection, antibacterial, anti-mildew, cleaning and drying functions of tableware disinfection cabinets (hereinafter referred to as "disinfection cabinets"). The technical requirements, as well as the disinfection effect classification and marking requirements, describe the corresponding test methods. This document applies to single-phase appliances with a rated voltage not exceeding 250 V and

other appliances with a rated voltage not exceeding 480 V, used in households and similar places. Physical or chemical disinfection methods such as electric heating, ozone, ultraviolet radiation (only as an auxiliary) using electricity as the main energy source, and Disinfection cabinets that combine the above disinfection methods. Other utensils with tableware disinfection functions shall be implemented in the same way. This document does not apply to the following disinfection cabinets. --Disinfection cabinets that disinfect only by ultraviolet radiation; --Disinfection cabinets that are not used primarily for disinfecting tableware, such as towel disinfection cabinets; --Disinfection cabinets installed in special occasions, such as places where corrosive or explosive gases (dust, steam or gas) exist; --Disinfection cabinets for medical and sanitary purposes.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 4789.2 National food safety standard Food microbiology examination Determination of total colony count

GB 4789.3 National Food Safety Standard Food Microbiology Examination Coliform Count

GB/T 14675 Air quality-Determination of malodor-Three-point comparison odor bag method

GB/T 18883 Indoor Air Quality Standard

GB 19489 General requirements for laboratory biosafety

GB 21551.2 Special requirements for antibacterial materials with antibacterial, sterilization and purification functions for household and similar electrical appliances WS/T 683

Requirements for microorganisms used in disinfection tests

## 3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Disinfecting of tableware The process of killing or removing pathogenic microorganisms remaining on washed tableware to render it harmless.

3.2 Disinfecting tableware cabinet A device with one or more compartments for placing tableware, which uses physical or chemical methods, or a combination of methods to disinfect tableware. [Source: QB/T 5893-2023, 3.1]

3.3 Electric disinfecting tableware cabinet Tableware disinfection cabinet (room) that uses electric heating or mainly electric heating.