

ICS 27.200
CCS J 73



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

GB/T 44544-2024

Sterilizing type air conditioner

除菌毒型空气调节机组

Issued on: September 29, 2024

Implemented on: April 1, 2025

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

Table of Contents

Preface... III 1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Type and basic parameters	2
5 Technical requirements	3
6 Test methods	5
7 Inspection Rules	8
8 Marking, packaging, transportation and storage	9
Appendix A (Normative) PM0.3 Purification Efficiency Test Method	11
Appendix B (Normative) Self-cleaning rate test method	13

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.

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 the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Refrigeration and Air-conditioning Equipment (SAC/TC 238).

This document was drafted by: Hefei General Machinery Research Institute Co., Ltd., Zhuhai Gree Electric Appliances Co., Ltd., Shanghai University of Technology, Zhejiang Dun'an Electromechanical Technology Co., Ltd., Anhui Provincial Center for Disease Control and Prevention, the Second Affiliated Hospital of Anhui Medical University, Qingdao Hisense Hitachi Air Adjustment System Co., Ltd., Ningbo Aux Electric Co., Ltd., Chongqing Midea General Refrigeration Equipment Co., Ltd., Hefei General Mechanical and Electrical Products Testing Institute Co., Ltd. and Hefei General Environmental Control Technology Co., Ltd.

The main drafters of this document are: Zhang Xiuping, Tian Xudong, Qu Benlian, Zhang Hua, Zhang Hua, Cheng Bin, Wu Lei, Xuan Han, Zhang Wenqiang, Yang Jianqun, Luo Mingwen, Guo Yang, Zan Shichao, Wang Rujin, Dong Anle, Wu Junfeng, Ge Tan, Luo Tianyan, Liu Wenqing.

Sterilization and virus removal air conditioning unit

1 Scope

This document specifies the types and basic parameters, technical requirements, test methods, inspection rules, signs, Packaging, transportation and storage.

This document applies to direct evaporative air conditioning units used in applications with high requirements for air conditioning and disinfection.

Similar units used in the scene are used for reference.

This document is not applicable to air conditioning units that do not have their own cooling source.

2 Normative references

GB 4706.32-2012

GB 4789.2

GB/T 4798.1

GB/T 9237

GB/T 14294

GB/T 17758-2023

GB/T 18883-2022

GB 25130

JJF 1190

3 Terms and definitions

The terms and definitions defined in JB/T 7249 and the following apply to this document.

3.1 Germs and viruses

A general term for pathogenic bacteria and viruses among pathogenic microorganisms.

Note. In this document, it refers to pathogenic bacteria and viruses that can be transmitted through the air, invade the human body, and cause infection or even infectious diseases.

3.2 Stand-alone air conditioning unit

Use physical and chemical methods to kill microorganisms in indoor air, and can also achieve air conditioning and disinfection.

3.3 Fine particulate matter

PM0.3 Particles in ambient air with an aerodynamic equivalent diameter greater than or equal to 0.3 μm .

chinastandards.org - PREVIEW