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CERTIFICATION AND ACCREDITATION INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

RB/T 009-2019

General requirements for evaluation of high efficiency particulate air filtration device

高效空气过滤装置评价通用要求

(English Translation)

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Foreword

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

This standard was proposed and managed by the National Certification and Accreditation Administration Committee.

Drafting organizations of this standard. China National Accreditation Center for Conformity Assessment, National Engineering and Technology Research Center for Biological Protection Equipment, China Agricultural Science College of Harbin Veterinary Research Institute, Jiangsu Provincial Center for Disease Control and Prevention, Chinese Academy of Building Sciences Co., Ltd.

Introduction

High-efficiency air filtration devices have various structures and are widely used in scientific research, biomedicine, environmental protection and other environmental facilities and equipment.

The quality of effective air filtration devices is related to the air quality and environmental safety in the controlled environment.

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In order to solve the technical problems of the detection and evaluation of different types of high efficiency air filter devices, this standard can be used as various types of high efficiency air filter devices the basis of the evaluation is for the reference of the research and development, use and certification of high-efficiency air filtration devices.

For some specific products, it should also meet corporate standards and national regulations for such products.

General requirements for the evaluation of high-efficiency air filtration devices

1 Scope

This standard specifies the types of high-efficiency air filtration devices, general evaluation requirements, pre-installation evaluation, on-site evaluation requirements after installation, filtration Requirements for on-site testing and verification of device performance and evaluation reports.

This standard applies to the evaluation of high-efficiency air filtration devices that remove aerosols.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this file. For undated references, the latest version (including all amendments) applies to this document.

GB 19489-2008 General requirements for laboratory biosafety GB 50346 Technical Code for Biological Safety Laboratory Building RB/T 199 Laboratory equipment biosafety performance evaluation technical specifications ISO 29464:2017 Air and other gas purification terms (Cleaningofair and othergases-Terminology) Technical Specifications for Disinfection of the Ministry of Health of the People's Republic of China (2002 Edition)

3 Terms and definitions

The following terms and definitions apply to this document.

High efficiency air filter an air filtration device equipped with a high efficiency air filter for the purpose of removing harmful aerosols in the air supply and exhaust for a specific controlled environment.

Controlled environment Specific areas where pollutants are controlled by prescribed methods.

Note: Rewrite GB/T 25916.1-2010, definition 3.1.9.

Aerosol

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Relatively stable particles formed by solid or liquid particles with a particle size of generally 0.001 μm to 100 μm suspended in a gas medium Scattered system.

[GB 19489-2008, definition 2.1] 3.4 High efficiency air filter A filter used for air filtration with a minimum filtration efficiency of not less than 99.95% under the rated air volume.

Note: Rewrite ISO 29464:2017 and define 3.2.84.

effectiveness

Under the test conditions, the ratio of the count rate of the particles captured by the filter to the count rate of the upstream particles, expressed as a percentage.

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