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

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**Technical requirement for environmental labeling products Air
cleaner**

环境标志产品技术要求 空气净化器

(English Translation)

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Foreword

To implement the "People's Republic of China Environmental Protection Law" to reduce the air purifier products in the production and use of the process of human health and Environmental impact, protection of the environment, the development of this standard.

This standard addresses the environmental design, production process, product performance, packaging and product specifications of air purifiers.

This standard is the first release.

This standard is organized by the Ministry of Environmental Protection Science and Technology Standards Division.

The main drafting of this standard. Environmental Development Department of Environmental Protection, Tsinghua University Building Environment Testing Center, Tianjin deep breathing ring Technology Development Co., Ltd., Lake Electric Co., Ltd., Infinity (China) Co., Ltd., Beijing Asia are environmental technology limited the company.

The environmental protection department of this standard approved on November 14, 2016.

This standard has been implemented since January 1, 2017.

This standard is explained by the Ministry of Environmental Protection.

Environmental labeling products Technical requirements Air purifiers

1 Scope of application

This standard specifies the terms and definitions, basic requirements, technical contents and test methods of the air purifier environmental labeling product.

This standard applies to air cleaners used by non-professionals in the case of homes, homes and similar purposes.

This standard does not apply to.

- air purifiers designed for industrial use;
- air purifiers for use in corrosive and explosive atmospheres (eg dust, steam and gas) in special environmental settings;
- Air purifiers designed for medical use.

2 Normative reference documents

The contents of this standard refer to the terms of the following documents. For undated references, the valid version applies to this standard.

GB 3095-2012 Ambient air quality standards GB/T 16288 Marking of plastic products GB/T 18455 Packaging Recycling Mark Air purifier GB/T 18801-2015 Terminology of Recycling of Waste Products GB/T 20861-2007 Limits for Restricted Substances in Electrical and Electronic Products GB/T 26572

3 Terms and definitions

The following terms and definitions apply to this standard.

Air cleaner

A household and a similar ability to remove one or more contaminants such as particulate matter, gaseous pollutants, microorganisms, etc. in the air Use electrical appliances. (GB/T 18801-2015)

3.2 Recyclability rate

The sum of the quality of the product that can be reused and the part of the recycled product (excluding the energy recovery section) Ratio. (GB/T 20861-2007)

3.3 Clean air delivery rate (CADR)

The air purifier is used to determine the target pollutants (particulate and gaseous pollutants) in the rated state and specified test conditions.

Force of the air purifier to provide clean air rate. (GB/T 18801-2015)

3.4 Low noise operating conditions low noise operating condition

Air cleaner at low noise level Note 1 Operating state at run time.

Note 1: The low noise level in this standard shall not be greater than 47 dB (A) (sound power level).

3.5 Clean energy efficiency cleaning energy efficiency

Air purifier in the rated state of the unit power generated by the amount of clean air. (GB/T 18801-2015)

4 Basic requirements

4.1

product quality should meet the GB/T 18801 standard requirements.

4.2

product safety performance, electromagnetic compatibility and sterilization performance should be consistent with the corresponding national or industry standards.

4.3

pollutants discharged from the production enterprises should comply with national or local regulations on pollutant discharge standards.

4.4

production enterprises in the production process should strengthen the clean production.

5.1.1 Easy to recover design

5.1.1.1

The renewable rate of the product shall be not less than 80%. The calculation method is shown in Appendix A.

5.1.1.2

Plastic parts with a mass exceeding 25 g should use a single type of polymer or copolymer.

5.1.1.3

Plastic parts with a mass exceeding 25 g and a planar surface area exceeding 200 mm²

shall be marked in accordance with the requirements of GB/T 16288.

5.1.2 Hazardous Substances in Components

5.1.2.1

The limits of the restricted substances in the parts (including the filter material) shall comply with the requirements of GB/T 26572.

5.1.2.2

Housing and circuit board substrates do not use short chain chlorinated paraffins (SCCPs).

5.1.2.3

Plastic parts with a mass greater than 25 g in the enclosure do not use chlorine-containing, bromine-containing polymers, do not add organic chlorine compounds, A flame retardant for bromine compounds.

5.1.2.4

In addition to wire and cable products, the plastic parts with a mass greater than 25 g do not use the phthalates listed in Appendix B Plasticizer.

5.1.2.5

The content of benzo (a) pyrene in the product shell, key and power cord is not more than 20 mg/kg, and the sixteen polycyclic rings listed in Appendix C the total amount of aromatic hydrocarbons (PAHs) is not more than 200 mg/kg.

5.1.2.6

The mercury content of the UV lamp used in the product is not more than 15mg/branch.

5.2 Product production process requirements

5.2.1

No use of hydrochlorofluorocarbons (HCFCs), 1,1,1-trichloroethane (C₂H₃Cl₃), trichlorethylene (C₂HCl₃), dichloroethane (CH₃CHCl₂), dichloromethane (CH₂Cl₂), trichloromethane (CHCl₃), carbon tetrachloride (CCl₄), bromopropane (C₃H₇Br), etc.

Material as a cleaning solvent.

5.2.2

parts assembly, connection process should be used lead-free soldering process.

5.3 Product requirements

5.3.1

Purification requirements for the removal of fine particulate matter (PM_{2.5}) from the product