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

GB/T 18801-2022

Air cleaner

空气净化器

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Foreword

This document was issued on 12 October 2022 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 May 2023.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

1 Scope

GB/T 18801-2022 is the product standard for household air cleaners, and it is the document that made the market comparable. Air cleaners are sold on claims a buyer cannot check - how much air they actually clean, of what, how quickly, and for how long before the filter stops working - and before a standard defined those quantities the numbers on the box meant whatever the manufacturer wanted. This standard fixes them: the clean air delivery rate for particulates and for formaldehyde, the cumulative clean mass that says how much a filter can absorb before it is spent, and the noise at which the machine delivers its rated performance, which is the figure that decides whether it is usable in a bedroom. It also covers what a cleaner must not do, since some technologies generate ozone. The document specifies terms and definitions, classification and model designation, requirements, test conditions, test methods, inspection rules, marking, instructions for use, packaging, transport and storage. Under CCS Y62, it is written for appliance manufacturers, for testing and certification bodies, and for the retailers and consumer bodies who compare products against a common measure.

This document specifies the terms and definitions, classification and model nomenclature, requirements, test conditions, test methods, inspection rules, marks, instructions for use, packaging, transportation and storage of air cleaners.

NOTE 1. The air cleaners involved in this document include independent air cleaning appliances

and various air cleaning modules.

This document applies to the household and similar air cleaners (hereinafter referred to

as "the cleaners") that have the function of removing one or more of the above-mentioned target pollutants such as particulate matter, gaseous pollutants, microorganisms (bacteria, fungi, viruses), odors and allergens.

This document is applicable to but not limited to the cleaners with the following working principles. filter type, adsorption type, complex type, chemical catalytic type, photocatalytic type, electrostatic type, plasma type, composite type.

NOTE 2.A composite cleaner refers to the cleaner that uses two or more cleaning principles to

remove one or more air pollutants.

The following products can be implemented with reference to this document.

- Small, portable cleaners, passenger car cleaners;
- Air duct type cleaning device and other similar cleaners;
- Other products with air cleaning function.

NOTE 3.For example, air conditioners, dehumidifiers, fresh air fans, fans, humidifiers, heaters and

vacuum cleaners.

This document does not apply to.

- Cleaners designed for industrial use;
- Cleaners used in special environments of corrosive and explosive gases (such as dust, steam and gas);
- Cleaners designed for medical use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 191, Packaging and storage marks

GB/T 1019, General requirements for the package of household and similar electrical appliances

GB/T 2828.1, Sampling procedures for inspection by attributes - Part 1.Sampling

schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829, Sampling procedures and tables for periodic inspection by attributes

(apply to inspection of process stability)

GB/T 4214.1-2017, Test method for noise of household and similar electrical appliances - General requirements

GB 4706.1, Household and similar electrical appliances-Safety Part 1.General requirements

GB 4706.45, Household and similar electrical appliances - Safety - Particular requirements for air-cleaning appliances

GB/T 5296.2-2008, Instructions for use of products of consumer interest - Part 2.

Household and similar electrical appliances

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 air cleaner

Household and similar electrical appliances that have a certain ability to remove one or more target pollutants from indoor air.

3.2 target pollutant

Specific air pollutants with clear components, mainly including particulate matter, gaseous pollutants, microorganisms, allergens and odors.

3.3 particulate matter; PM_{2.5}

Particulate matter in ambient air with an aerodynamic equivalent diameter less than or equal to 2.5µm.

[Source. GB 3095-2012, 3.4, modified]

3.4 test chamber

A device used to determine the cleaner's ability to remove target pollutants in the air in a limited confined space and standard test conditions.

3.5 Operating modes

3.5.1 rated mode(s)