



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

GB/T 45334-2025

**Smart elderly-oriented technical specification for air
conditioners**

空调智能适老化技术规范

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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. 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 was prepared by the National Technical Committee for Standardization of Refrigeration and Air Conditioning Equipment (SAC/TC238) and the National Technical Committee for Standardization of Household Electrical Appliances (TC46) Jointly managed. This document was drafted by: Qingdao Haier Air Conditioner Co., Ltd., Guangdong Midea Refrigeration Equipment Co., Ltd., Aux Air Conditioner Co., Ltd. Company, Hefei General Electromechanical Products Testing Institute Co., Ltd., China Household Electrical Appliances Research Institute, TCL Air Conditioner (Zhongshan) Co., Ltd., Hisense Air Co., Ltd., Qingdao Hisense Hitachi Air Conditioning System Co., Ltd., Hefei General Machinery Research Institute Co., Ltd., Tsinghua University, China Academy of Building Research (Beijing) Testing and Certification Co., Ltd., Guangdong Newntec New Energy Technology Co., Ltd., and Xiaomi Smart Home Appliances (Wuhan) Co., Ltd. The main drafters of this document are. Li Wei, Li Jianfeng, Zhuo Senqing, Li Zhiliang, Li Liyan, Han Dong, Bie Qingfeng, Zhang Wenqiang, Zan Shichao, Shi Wenxing, Zhang Xinlu, Zhao Misheng, Shan Lianyu, Lao Chunfeng, Zhang Huan, Li Ronggang, Li Lu, and Zhang Ru. Technical Specifications for Intelligent Air Conditioning Adaptive to Aging

1 Scope

GB/T 45334-2025 is the Chinese technical specification for making air conditioners usable by older people. China is ageing faster than any large country has, and a series of standards is being written to make ordinary appliances workable for people with reduced

sight, hearing, dexterity and memory; this is the one for air conditioning. It sets the requirements on the interface: the size and contrast of the display, the size, spacing and tactile feedback of the controls, the volume and pitch of the audible feedback, the simplification of the operating logic and the limitation of the number of steps, the voice interaction where it is provided, and the wording of the instructions. It also covers the comfort and safety requirements that matter more for older users, the control of draughts and of temperature swing, the behaviour after a power interruption, and the fault and reminder functions, together with the corresponding test methods. For an appliance maker selling into China, this is the specification an age-friendly claim is judged against.

This document specifies the technical requirements, test methods and evaluation rules for intelligent aging-friendly air-conditioning products. This document is applicable to the design and evaluation of intelligent aging-friendly functions of air-conditioning products.

2 Normative references

The contents of the following documents constitute 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 4343.1 Electromagnetic compatibility requirements for household appliances, electric tools and similar appliances Part

3 Terms and definitions

Terms defined in GB/T 20002.4-2015, GB/T 28219-2018, GB/T 36934-2018, GB/T 36947 and the following and definitions apply to this document.

3.1 Older people People aged 60 years and above, including 60 years old.

Note. The elderly involved in this document are those who can take care of themselves, but have some difficulties in using appliances that meet conventional technical requirements due to aging. Some elderly people lose the ability to use equipment due to physical disabilities or mental disorders, and their needs are beyond the guidance scope of this document. [Source: GB/T 36934-2018, 3.1]

3.2 easy-use design Focus on elderly users who can take care of themselves and have no serious physical and mental disabilities, so that they can use the product easily. design. [Source: GB/T 36947-2018, 3.5]

3.3 Safety A state free from unacceptable risk.

4 Safety-related contents in standards

GB 22337-2008 Social living environment noise emission standard

GB/T 28219-2018 General technical requirements for smart household appliances

GB/T 36934-2018 Design Guidelines for Household Appliances for the Elderly

GB/T 36947 User interface design specification for household appliances for the elderly

GB/T 39640 Measurement method of electromagnetic fields from household appliances and similar apparatus relative to human exposure

GB/T 40979-2021 Personal information protection requirements and evaluation methods for smart household appliances

GB/T 41789-2022 General safety technical requirements for smart household appliances