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

GB 37479-2019

**Minimum allowable values of energy efficiency and energy
efficiency grades for ducted air conditioners**

风管送风式空调机组能效限定值及能效等级

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Foreword

Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Ducted Air Conditioners

Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Ducted Air Conditioners 1 Scope

This Standard specifies the energy efficiency grades, technical requirements and test methods for ducted air conditioners. This Standard is applicable to ducted air-conditioning (heat pump) units and direct evaporation all fresh air handling units that use motor-driven compressors, and whose indoor unit static pressures are greater than

0 Pa (gauge pressure).

2 Normative references

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

GB/T 17758-2010, Unitary air conditioners

GB/T 18836, Ducted air-conditioning (heat pump) units

GB 21455, Minimum allowable values of the energy efficiency and energy efficiency grades for variable speed room air conditioners

GB/T 25128-2010, Direct evaporation all fresh air handling units

3 Terms and definitions

Terms and definitions determined by GB/T 18836, GB/T 25128-2010 and the following ones are applicable to this document.

5 Technical requirements 5.1 The minimum allowable values of ducted air-conditioning (heat pump) units and direct evaporation all fresh air handling units are the index values corresponding to grade-3 of the energy efficiency grades in Table 1.

5.2 Products which use electric auxiliary heating shall realize manual opening and closing of auxiliary heating system, and shall be installed with devices that show the working state of the electric auxiliary heating system in obvious position.

5.3 Under the condition when the outdoor-side dry bulb temperature of the product is larger than or equal to 0°C, the electric auxiliary heating shall not be automatically turned on.

5.4 The allowable difference shall meet the following requirements:

- a) The marked value of energy efficiency of the product shall not be less than the specified index value corresponding to the rated energy efficiency grade, and it shall be within the value range corresponding to the rated energy efficiency grade.
- b) The actual test value of energy efficiency of the product shall not be less than 95% of the marked value.
- c) The marked nominal cooling capacity and actual test value of the product shall be within the nominal cooling capacity corresponding to the rated energy efficiency grade.
- d) The calculated value of actual-measured power consumption of the product shall be less than or equal to 110% of the marked-value.