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

GB 12021.9-2021

**Minimum allowable values of energy efficiency and energy
efficiency grades for electric fans**

电风扇能效限定值及能效等级

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Foreword

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA ICS

Replacing GB 12021.9-2008

Minimum allowable values of energy efficiency and energy efficiency grades for electric fans

Minimum allowable values of energy efficiency and energy efficiency grades for electric fans 1 Scope

This document specifies the energy efficiency grades, technical requirements, test methods and energy efficiency calculation methods for electric fans. This document applies to AC or DC motor driven table fans, louver fans, wall fans, floor fans, pedestal fans and ceiling fans, of which the single-phase rated voltage does not exceed 250 V and other rated voltages do not exceed 480 V.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. For dated references, only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

GB/T 13380-2018, A.C. electric fans and regulators

GB/T 35758-2017, Household electrical appliances - Measurement of standby power QB/T 5262-2018, D.C. electric fans

3 Terms and definitions

Terms and definitions determined by GB/T 13380-2018, GB/T 35758-2017 and QB/T 5262-2018, and the following ones are applicable to this document.

3.1 Energy efficiency for electric fans The ratio of the output air volume to the input power of the electric fan.

11 The minimum allowable value of energy efficiency for electric fans under the test conditions specified in the standard, on the premise of meeting the standby power requirements.

3.3 Standby power The power when the electric fan is switched on and in a waiting state (the motor is not working).

3.4 Wind gathering fans Table fans, wall fans, floor fans and pedestal fans whose ratio of the air volume of the inner circle to the air volume of the outer circle is not less than 0.9.

4 Energy efficiency grade

--- The End ---