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

GB/T 19075.2-2025

Replacing GB/T 19075-2003

**Fans - Vocabulary and definitions of categories - Part 2:
Categories
(English Translation)**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 2 of GB/T 19075 "Glossary of Terms and Definitions for Ventilation Fans". GB/T 19075 has already published the following...

part.

---Part 2: Types.

This document partially replaces GB/T 19075-2003 "Glossary of Terms and Types of Industrial Ventilation Fans" and is consistent with GB/T 19075-2003.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2003 edition);
- b) Vocabulary-related content has been removed (see Chapter 3 of the 2003 edition);
- c) Some symbols and units have been changed (see 4.1, Chapter 4 of the 2003 edition);
- d) The classification of fans based on fan pressure at maximum safe operating speed has been changed (see Table 1, 2003 edition);
- e) The naming and recommended classification of smoke exhaust fans have been changed (see 5.3.3, 2003 edition of 5.3.3);
- f) The classification of airtight ventilators has been changed-leakage is now considered a function of test pressure (see Table 3, Table 4 in the 2003 edition);
- g) The category for fire-resistant ventilation fans has been removed (see 5.3.5 in the 2003 edition);
- h) The transmission arrangement was changed (see 5.4, 2003 edition 5.4);
- i) The method of controlling the ventilation fan has been changed (see 5.6, 2003 version 5.6);
- j) The list of preferred terms for fan components has been changed (see Table 8, Table 10 in the 2003 edition).

This document adopts ISO 13349-2:2022 "Ventilators - Vocabulary and definitions of types - Part 2: Types".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Wind Turbines (SAC/TC187).

Introduction

With the rapid development and expansion of my country's national economy, the application and production of ventilation fans have grown exponentially, while also placing higher demands on them.

With increasingly higher requirements, international standards have been supplemented, improved, and updated in recent years, promoting the development of related technologies and supporting products for ventilation fans.

Significant progress has been made in product technology.

The definition standards for vocabulary and categories are the foundation of various standards for ventilation fans, encompassing all aspects of ventilation fans and collectively determining the vocabulary related to ventilation fans.

The possibilities of usage determine the internal and external factors of linguistic meaning. As symbols of objective things, words possess certain meanings, ensuring the system...

The definition established the derivation and stability of key terms related to ventilation fans, established the conceptual system in the field of ventilation fans, and thus clarified...

The position of each ventilator within the conceptual framework will be continuously improved as the work of developing terminology standards progresses.

GB/T 19075, "Glossary and Definitions of Industrial Ventilation Fans," aims to establish the main terminology and definitions for industrial ventilation fans. It is proposed to consist of two parts.

constitute.

---Part 1: Vocabulary. The purpose is to establish the main vocabulary for ventilation fans, including terms and definitions for all areas of ventilation fan development.

---Part 2: Types. The purpose is to establish the main types of ventilation fans, and the types applicable to all ventilation fan applications. (Not applicable to...) for the safety of electrical equipment.

This document adopts ISO 13349-2:2022 equivalently, which will help my country's ventilation fan industry and related fields to better understand and implement the standard.

The relevant technical requirements.

Ventilation fan terminology and type definitions Part 2: Types

1 Scope

This document defines the types of ventilation fans used for different purposes in various fields.

This document does not apply to electrical safety.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

ISO 5167-1 Measurement of full-pipe flow rate using a differential pressure device installed in a pipe with a circular cross-section - Part 1: General principles and requirements Note. GB/T 2624.1-2006 Measurement of full-pipe fluid flow rate using a differential pressure device installed in a circular cross-section pipe - Part 1: General principles and requirements (ISO 5167-1:2003, IDT) Note. GB/T 1236-2017 Standardized air duct performance test for industrial fans (ISO 5801:2007, IDT) Categories - Part 1: Vocabulary ISO 13351 Fan Dimensions Note. GB/T 17774-2025 Dimensions of ventilation fans (ISO 13351:2024, IDT)

3 Terms and Definitions

The terms and definitions defined in ISO 5167-1, ISO 5801 and ISO 13349-1 apply to this document.

4.1 Symbols

The following symbols and main units apply to the parameter list.

Parameter symbol unit Volumetric flow rate q_V m³/s Ventilation fan pressure p_F Pa Power P_W Torque τ Nm Gas density ρ kg/m³