

ICS 79.120.99
CCS B 70

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

LY/T 1862-2022

**Energy-saving technical specifications for pneumatic
conveying and dust removal systems in the wood industry**

木材工业气力运输与除尘系统节能技术规范

(English Translation)

Issued on: September 7, 2022

Implemented on: January 1, 2023

Issued by: State Forestry and Grassland Administration

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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.

This document replaces LY/T 1862-2009 "Technical Specifications for Energy Conservation of Pneumatic Conveying and Dust Collection Systems in the Wood Industry", and LY/T 1862-Compared with 2009, except for structural adjustment and editorial changes, the main technical changes are as follows.

- a) The scope of application of the document has been changed (see Chapter 1, Chapter 1 of the 2009 edition);
- b) Added normative references GB/T 6422, GB/T 13471, GB/T 18262, GB 19153, GB 19761, JB/T 10563, LY/T 1423, LY/T 1995, LY/T 2002, LY/T 2162 and LY/T 2394 (see Chapter 2, Section 2 of the 2009 edition chapter);
- c) Added the chapter "Terms and Definitions" (see Chapter 3);
- d) Changed "General Principles" to "Principles and Requirements" (see Chapter 4, Chapter 3 of the 2009 edition);
- e) Changed the "energy-saving approach" to "energy-saving design requirements" (see 5.1~5.4, Chapter 4 of the 2009 edition);
- f) The chapter "Manufacturing and acceptance requirements" has been added (see Chapter 6, 4.2 and 4.3 of the 2009 edition);
- g) Changed "operation management" to "operation and maintenance requirements" (see Chapter 7, Chapter 5 of the 2009 edition);
- h) Changed the "economic operation evaluation and test method" to "economic operation requirements" (see 8.1~8.5, 6.1~6.3 of the 2009 edition);
- i) Added "implementation requirements" (see Chapter 9).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

This document is sponsored by the National Energy Foundation and Management Standardization Technical Committee Forestry Energy Management Sub-Technical Committee (SAC/TC20/SC7) Proposed and managed.

1 Scope

This document establishes the general principles for energy conservation of pneumatic conveying and dust removal systems in the timber industry, and specifies the design, manufacture and acceptance, operation and Requirements for maintenance, economical operation and implementation.

This document applies to new products that use wood, bamboo and straw as raw materials to produce wood-based panels, wooden furniture, wooden floors, wooden doors and windows, and wood-plastic products.

Energy saving in the design, manufacture, acceptance and operation of pneumatic transportation and dust removal systems in construction and renovation projects.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies in this document.

GB/T 6422 Guidelines for energy testing of electrical equipment GB/T 12497 Economical operation of three-phase asynchronous motors GB/T 13466 General rules for economic operation of AC electric drive fan (pump, air compressor) system GB/T 13470 Fan System Economical Operation GB/T 13471-2008 Calculation and evaluation method of economic benefits of power saving technology GB 17167 General rules for equipment and management of energy measuring instruments for energy-consuming units GB/T 18262 General technical conditions for wood-based panel machinery GB 18613 Allowable Values of Energy Efficiency and Energy Efficiency Grades of Electric Motors GB 19153 Positive displacement air compressor energy efficiency allowable value and energy efficiency grade GB 19761 Ventilation fan energy efficiency allowable value and energy efficiency grade GB/T 21056 Fan and pump load frequency conversion speed regulation power saving drive system and its application technical conditions JB/T 10563 Specifications for Centrifugal Fans for General Purposes LY/T 1423 Wood Industry Cyclone Separator LY/T 1659-2020 Technical specification for dust prevention and control of wood-based panel industry LY/T 1806 Specification for design of pneumatic dust removal (transportation) system for wood industry LY/T 1995 Classification, specifications and performance representation methods

of gas-solid separation devices LY/T 2002 General Rules for Acceptance of Pneumatic Conveying Systems in the Wood Industry LY/T 2162 Rectangular Equal Section Main Duct Dust Suction System LY/T 2394 Management Requirements for Energy Measuring Instruments in Forestry Enterprises

3 Terms and Definitions

LY/T 1659-2020, LY/T 1995 and the following terms and definitions apply to this document.