Chinastandards.org

ICS 71.100.20
CCS J76

JB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

JB/T 15153-2025

Hydrogen turbo-expander braked with generator

液化天然气冷能空气分离设备

(English Translation)

Issued on: May 9, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jb-t-15153-2025

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Terms and definitions
4 Technical requirements
4.1 General requirements
4.2 Model designation
6 Test methods
6.1 Factory inspection
6.2 Type inspection
7 Inspection rules
8 Marking, packaging, transportation and storage
8.1 Marking
8.2 Packaging

1 Foreword

JB/T 15153-2025 was issued by Ministry of Industry and Information Technology on 9 May 2025 and has been in force since 1 November 2025.

The JB/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the basic process, model, and technical requirements of liquefied natural gas (LNG) cold air separation equipment, describes the corresponding testing methods, and stipulates inspection rules, marking, packaging, transportation, storage, and installation. This document applies to the manufacture of LNG cold air separation equipment with an oxygen production capacity greater than or equal to 1000 m3/h and less than 60000 m3/h, utilizing the cold energy released during LNG gasification to separate air using a cryogenic method to produce LNG with oxygen/nitrogen as the main products. The manufacture of extra-large LNG cold air separation equipment should refer to this standard.

Preview: page 2 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jb-t-15153-2025

JB/T 15153-2025 falls under ICS 71.100.20, in the field of chemical technology.

This catalogue holds 70 other JB/T standards in that field.

In this catalogue, JB/T standards carry edition years from 1967 to 2026.

3 About this standard

Sector: Mechanical & Machinery Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

GB/T 18442.2-2019 - Static vacuum insulated cryogenic pressure vessels-Part 2:Materials

GB/T 18442.1-2019 - Static vacuum insulated cryogenic pressure vessels - Part 1:General requirements

JB/T 9076-2016 - Reciprocating cryogenic liquid pumps - Specification

JB/T 15152-2025 - Hydrogen turbo-expander braked with generator

JB/T 15151-2025 - Cryogenic separation unit of alkanes dehydrogenation

JB/T 15150-2025 - Liquid nitrogen wash unit

5 Classification and status

International classification (ICS): 71.100.20

Chinese Standard Classification (CCS): J 76

Prefix JB/T: recommended standard.

Preview: page 3 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jb-t-15153-2025