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

GB/T 11864-2008

Replacing GB 11864-1989

Marine axial flow fans

船用轴流通风机

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Foreword

This standard replaces GB/T 11864-1989 "Marine Axial Fan." This standard compared with GB/T 11864-1989, the main technical content of the following changes.

- Expand the performance parameters, traffic expanded 100000m³/h, 120000m³/h, 150000m³/h, 200000m³/h four files;
- United fan product model representation;
- Points overall requirements and major components of the fan cover requirements described;
- Refined fan product packaging requirements. The standard proposed by China Shipbuilding Industry Corporation. This standard by the China Machinery Standardization Technical Committee Marine deck machinery and auxiliary machinery spaces under the jurisdiction of the Technical Committee. This standard was drafted. China Shipbuilding Industry Corporation seventh four Institute. The main drafters of this standard. Joe River, Ding Ke Kim, Ju Yi, Feng Bin Bu. This standard replaces the standards previously issued as follows:
 - GB/T 11864-1989. Marine Axial Fan

1 Scope

GB/T 11864-2008 is the Chinese national standard on marine axial flow fans, in the field of shipbuilding and marine structures. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 3 March 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 September 2008. Classification: ICS 47.020.50, CCS U47. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies a single stage, single suction Marine Axial Fan (hereinafter referred to as "fan") product classification, requirements, test methods, inspection regulations Then, signs, packaging and storage. This standard applies to ventilation ventilator design, production, testing and acceptance.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs (GB/T 191-2000, eqv ISO 780.1997)

GB/T 1236 Industrial fans using standardized airways performance test (GB/T 1236-2000, idt ISO 5801.1997)

GB/T 1804-2000 General tolerances for linear and angular dimensions without individual tolerance tolerance (eqv ISO 2768-1. 1989)

GB/T 2888 fan and blower noise measurement method

GB/T 3235 basic fan type, size parameters and characteristics

GB 8923-1988 before painting steel surface rust grades and preparation grades (eqv ISO 8501-1. 1988)

GB/T 9438 aluminum alloy castings GB/T 13306 signs

GB/T 13384 mechanical and electrical products packaging General technical conditions Measurement and evaluation of

GB/T 16301-2008 ship engine room auxiliaries vibration intensity CB1146.1-1996 ship equipment Environmental test and engineering guidelines General CB1146.6-1996 ship equipment Environmental test and engineering guidelines for impact CB1146.8-1996 ship equipment Environmental test and engineering guidance tilt and sway CB1146.9-1996 ship equipment Environmental test and engineering guidance vibration

JB/T 6445 Fan impeller speed test

JB/T 6886 fan painting technical conditions

JB/T 9101 fan rotor balance

JB/T 10214 fan Maohan technical conditions

3 Terms, definitions, symbols and units

3.1 Theoretical design the most efficient working point of the fan for the fan rated conditions. That is, from the point of rated pressure, flow rate determined by the rated point Operating point.

3.2 I.e., atmospheric pressure is 101325 Pa, a temperature of 20 °C, 50% relative humidity, air density of 1.2kg/m³.

3.3 Fan actual traffic volume converted to standard air intake state.