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

GB/T 12919-2017

Replacing GB/T 12919-1991

Specification for cleaning equipments of air source in ship

船用控制气源净化装置技术条件

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Quarantine of the People's Republic of China;
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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 12919-1991 "marine control air purification device." Compared with GB/T 12919-1991, the main technology The changes are as follows:

- Modify the name of "marine control air purifier technical conditions";
- Cancel the "terminology" chapter (see.1991 edition Chapter 3);
- Increased rated flow range (see 3.2.1 and 3.2.2,.1991 version 4.2.1 and 4.2.2);
- Modify the value of intake pressure (see 3.2.1 and 3.2.2,.1991 version 4.2.1 and 4.2.2);
- Increased pressure dew point requirements (see 3.2.1 and 3.2.2);
- Added "design and structure" (see 4.1);
- Added "appearance quality" (see 4.2);
- Modify the atmospheric pressure dew point, pressure drop, the level of solid particles and oil content requirements (see 4.3.2.4.3.3.4.4.4.3.5,.1991 Version

1 Scope

GB/T 12919-2017 is the Chinese national standard on specification for cleaning equipments of air source in ship, 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 31 July 2017 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 February 2018. Classification: ICS 47.020.20, CCS U57. 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 the classification, requirements, test methods, inspection rules, signs, packages for marine control gas source purifying equipment (purifying device) Loading, transportation and storage. This standard applies to all types of ships and marine platforms with compressed air as the power source control system in the air purification device design, system Made and accepted.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 2624.2 Manifold fluid flow measurement using pressure differential devices installed in circular sectioned pipes - Part 2. Orifices

GB/T 2624.3 Manifold fluid flow measurement using a pressure differential device mounted in a circular sectioned pipe - Part 3. Nozzles and Venturi In the nozzle

GB/T 3783 marine low-voltage electrical basic requirements

GB/T 4595 shipboard noise measurement

GB/T 12920 marine pneumatic system General technical conditions Compressed air - Part 1. Purification levels of contaminants

GB/T 13306 signs CB1146.2 Ship Equipment Environmental Testing and Engineering Guidelines Low Temperature CB1146.3 Ship Equipment Environmental Testing and Engineering Guidelines High Temperature CB1146.4 Ship Equipment Environmental Testing and Engineering Guide Damp heat CB1146.8 Ship Equipment Environmental Testing and Engineering Guidelines Tilt and Swing CB1146.9 Ship Equipment Environmental Testing and Engineering Guidelines Vibration (Sine) CB1146.12 Ship Equipment Environmental Testing and Engineering Guidance Salt Spray

3 Categories

3.1 type According to the purification device using different drying methods, the purification device is divided into.

- a) Freeze-type decontamination unit. Compress air is cooled to its dew point by refrigeration equipment to separate the moisture in the compressed air, dried After the compressed air and then through the precision filter to remove impurities, get clean compressed air;
- b) adsorption purification device. The use of adsorbent to absorb moisture in the compressed air, compressed air after drying and then through a precision filter Exclude impurities, get clean compressed air.

3.2 Specifications

3.2.1 Freezing purification device specifications in Table 1.