

ICS 47.020.20

CCS U 41



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

GB/T 13414-2025

Replacing GB/T 13414-1992

Specification for marine exhaust gas boiler

船用废气锅炉技术条件

Issued on: August 29, 2025

Implemented on: March 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Non-alloy steels and alloy steels with specified temperature properties
- 3 Terms and Definitions

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 GB/T 13414-1992 "Technical requirements for marine exhaust gas boilers". Compared with GB/T 13414-1992, this document In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Added "Terms and Definitions" (see Chapter 3);
- Added classification of exhaust gas boilers (see Chapter 4);
- Added exhaust gas boiler components (see 5.1);
- Changed the design requirements for exhaust gas boilers (see 5.2, Chapter 4 of the.1992 edition);
- Added requirements for exhaust gas boiler body, water supply system, control and safety protection system (see 5.3);
- Changed the material selection requirements for the main components of the exhaust gas boiler (see 5.4, Chapter 5 of the.1992 edition);
- Changed the manufacturing requirements for the main components of exhaust gas boilers (see 5.5, Chapter 6 of the.1992 edition);
- Increased the hydraulic strength and tightness requirements of exhaust gas boilers (see 5.6);
- Added test methods for materials, manufacturing and hydraulic strength of exhaust gas boilers (see 6.1,
- Added inspection rules for exhaust gas boilers (see Chapter 7);
- Added exhaust gas boiler marking, random documents, transportation and storage requirements (see 8.1, 8.3~8.5). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the

responsibility for identifying patents. This document is proposed and coordinated by the National Technical Committee for Standardization of Marine Machinery (SAC/TC137). This document was drafted by: China Shipbuilding Industry Corporation Comprehensive Technical and Economic Research Institute, Qingdao Marine Boiler Factory Co., Ltd., Nantong Yuan Yang Ship Equipment Co., Ltd. and Qingdao Kaineng Environmental Protection Technology Co., Ltd. The main drafters of this document are: Wei Huaxing, Guan Yuling, Wang Bo, Chen Weiyu, Wang Jian, Xue Feng, Xu Suhua, Fang Guodong, Wang Qi, Liu Sheng, and Kuang Wenqi. This document was first published in 1992 and this is the first revision. Technical requirements for marine exhaust gas boilers

1 Scope

GB/T 13414-2025 is the Chinese national standard on specification for marine exhaust gas boiler, 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 29 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2026. Classification: ICS 47.020.20, CCS U 41. 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 document specifies the classification, requirements, inspection rules, marking, packaging, accompanying documents, transportation and Storage, etc., and describes the corresponding test and inspection methods. This document is applicable to steam boilers with a design pressure not exceeding

2.5 MPa and a working medium of water, as well as steam boilers with a working medium of water and an outlet temperature of Design, manufacture and acceptance of hot water boilers not exceeding 120°C.

2 Non-alloy steels and alloy steels with specified temperature properties

GB/T 3087-2022 Seamless steel tubes for low and medium pressure boilers

GB/T 5312-2009 Carbon steel and carbon manganese steel seamless steel tubes for ships

GB/T 11037 Test methods for strength and tightness of marine boilers and pressure vessels

GB/T 11038 Technical specifications for welding of pressure components of marine auxiliary boilers and pressure vessels GB/T 13306 Signage

GB/T 14650 General technical requirements for marine auxiliary boilers

GB/T 24947 Water quality requirements for marine auxiliary boilers CB/T 3347 Technical requirements for paint, insulation and packaging of marine auxiliary boilers CB/T 3348 Technical requirements for the assembly of shell-type auxiliary boilers for ships CB/T 3487 Welded steel finned tube CB/T 3568.3 Marine Machinery Terminology Main and Auxiliary Boilers CB/T 3597 Marine Auxiliary Boiler Header CB/T 3766 Exhaust pipe steel flange CB/T 3920 Marine auxiliary boiler threaded pipe CB/T 3921 Manhole device for auxiliary boilers on board ships CB/T 3922 Manufacturing requirements for pressure components of marine auxiliary boilers CB/T 3923 Handhole device for auxiliary boilers on ships CB/T 4105 Pin-shaped tubes for auxiliary boilers on ships NB/T 47030 Technical specifications for high-frequency resistance welded spiral finned tubes for boilers Rules for Classification of Seagoing Steel Ships, China Classification Society, 2024

3 Terms and Definitions

The terms and definitions defined in CB/T 3568.3 and GB/T 14650 apply to this document.