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

GB/T 47394-2026

**Flue gas condensing heat recovery units for gas-fired heating
boilers**

供热燃气锅炉烟气冷凝热能回收装置

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Classification and Models	2
5 General Provisions	3
6 Requirements	4
8 Inspection Rules	9
20 Appendix F (Normative) Operation and Maintenance	21

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Urban Heating (SAC/TC455). This document was drafted by: Beijing University of Civil Engineering and Architecture, Dalian University of Technology, Tsinghua University, Shandong Jingbo Petrochemical Co., Ltd., and Xi'an Jiaotong University. Universities, China Special Equipment Inspection and Research Institute, Beijing Heating Group Co., Ltd., Xinjiang Green Energy Environmental Services Co., Ltd., Beijing Jingneng Xinjiang Weitai Heating Co., Ltd., China Academy of Building Research Co., Ltd., and Chengdu Yangming Shuangxin Technology Co., Ltd. Limited Company, Beijing Thermal Equipment Manufacturing Co., Ltd., Shuangliang Energy-Saving System Co., Ltd., Guangdong Jiema Energy-Saving Technology Co., Ltd., Zhejiang Jiangli Thermal Energy Equipment Co., Ltd., China Investment (Tianjin) Intelligent Pipeline Co., Ltd., and Beijing Construction Engineering Quality Inspection Institute No.

6 Limited Company, Beijing Gas Group Research Institute, Beijing Public Utilities Science Research Institute Co., Ltd., Harbin Institute of Technology, Ningxia Architectural Design Research Institute Co., Ltd., Beijing Gas and Heat Engineering Design Institute Co., Ltd., and Taiyuan University of Technology. The main drafters of this document are. Mu Lianbo, Liu Guichang, Wang Suilin, Zhang Yang, Bao Xuewei, Chen Hongbing, Lu Junhui, Hao Anfeng, and Liu Jincheng. Wang Qingqin, Jin Liwen, Liu Xuemin, Wang Haihong, Li

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1 Scope

GB/T 47394-2026 is the Chinese national standard covering the condensing economiser on a gas boiler - recovering the latent heat in the water vapour of the flue gas, which is several per cent of the fuel and is otherwise thrown up the stack, plus the acidic condensate it produces and has to handle. First edition, in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the Ministry of Housing and Urban-Rural Development. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification and models, general provisions, requirements, test methods, and inspection procedures for flue gas condensation heat recovery devices for heating gas boilers. Rules, markings, instructions for use and product certificates, packaging, transportation and storage. This document applies to the manufacturing and inspection of flue gas condensation heat recovery devices for gas-fired boilers.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 1576 Industrial Boiler Water Quality

GB/T 2589 General Rules for Calculating Comprehensive Energy Consumption

GB 3096 Environmental Quality Standard for Noise

GB/T 7306.2 55° Sealing Pipe Threads - Part

3 Terms and Definitions

The following terms and definitions apply to this document.