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

GB 18111-2021

Gas storage water heater

燃气容积式热水器

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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 18111-2000 Gas Storage Water Heater. Compared with GB 18111-2000, except for editorial changes, the main technical changes are as follows:

- a) Modified the scope of application (see Chapter 1, Chapter 1 of the.2000 edition);
- b) Some terms and definitions have been added, modified and deleted (see Chapter 3, Chapter 3 of the.2000 edition);
- c) Added water heater classification (see 4.1.5, 4.1.6 and 4.1.7);
- d) Modified the model compilation method (see 4.2, 4.2.1 of the.2000 edition);
- e) Modified asbestos, fire viewing hole, dual-purpose water heater waterway, safety control device, combustion noise, maintenance heat load, water tank capacity and electricity Technical requirements for gas safety (see 5.1.3, 5.2.11, 5.2.19, 5.3.4, 6.3.1.7, 6.8.2, 6.10.1 and Appendix A,.2000 edition 5.3.3, 5.1.10, 5.2.5, 6.3.7, 6.10.2,
- f) Added small fire burner, pipe connection thread, natural exhaust type water heater anti-smoke safety protection device, and condensing gas volume Technical requirements for water heaters, electromagnetic compatibility safety and NOx classification (see 5.2.8, 5.2.20, 5.2.21, 5.3.6, 6.3.2.3, 5.5, 6.18, 6.21, Appendix B and Appendix C);
- g) Deleted the technical requirements for water heater leakage protectors (see 5.2.4 of the.2000 edition);
- h) Modified the technical requirements and test methods for thermal efficiency and hot water production rate (see 6.8.1, 7.10.1, 6.8.3, 7.10.3,.2000 edition 6.10.1, 7.11.1, 6.10.3 and 7.11.3). Please note that some of the contents of this document may involve patents. The issuing agency of this document is not responsible for identifying patents. This standard was proposed and managed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. The previous versions of the standard replaced by this standard are as follows:

1 Scope

GB 18111-2021 is the Chinese national standard on gas storage water heater, in the field of construction materials and building. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 10 August 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2022. Classification: ICS 91.140, CCS P 45. 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 terms and definitions, classification and model, materials, structure and safety of gas volumetric water heaters (hereinafter referred to as water heaters) Device, performance requirements, test methods, inspection rules, signs and instructions, packaging, transportation and storage. This standard applies to gas volumetric water heaters with a rated thermal load of less than 100kW and a rated volume of less than 500L. The fuel gas referred to in this standard refers to artificial gas, natural gas and liquefied petroleum gas specified in GB/T 13611.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 191 Packaging, storage and transportation pictorial signs

GB/T 2828.1 Sampling Inspection Procedures by Attributes Part