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

**GB/T 18292-2009**

Replacing GB/T 18292-2001

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**Economical operation of domestic boilers**

生活锅炉经济运行

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## Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Basic requirements

### Foreword

This standard replaces GB/T 18292-2001 "Life boiler economy." This standard compared with GB/T 18292-2001 main technical changes as follows:

--- Clear This standard applies to stationary boiler and the specific scope of coal, oil and gas as fuel, water as a medium, while Ming Indeed this standard does not apply to organic heat carrier furnace, stove, waste heat boilers and electric heating boiler;

--- Normative references increased "steam boiler safety technology supervision order", "hot water boiler safety technology supervision order", "Small And atmospheric pressure hot water boiler safety monitoring requirements ", GB 8978" Integrated Wastewater Discharge Standard ", GB/T 16811" industrial boiler water treatment Running result and the monitoring ", JB/T 7985" small boilers and pressure hot water boiler technology "and JB/T 10094" Industrial Boiler General technical conditions ";

--- Boiler life to give a clear definition, the definition of economic operation made appropriate modifications (3.1, 3.2);

--- Modify, adjust the economic operation of the boiler on the life of the basic requirements (4.1,4.2,4.3,4.4,4.5,4.8,4.9,4.11,4. 13, 4.14 and Table 1);

--- Clear the basic requirements of economic operation of the boiler life grading (Chapter 5);

--- Life boiler thermal efficiency and other technical indicators have been adjusted, and the economic life of the boiler operation to make a comprehensive level Judgment provisions (6.1,6.2,6.3,6.4,

6.6 and Table 2, Table 3, Table 4, Table 5, Table 7);

--- Clear method of living boiler thermal efficiency of testing and other technical indicators tested, and the test should clear the actual working conditions in the boiler The next run time (7.1, 7.2);

--- The assessment method and requires some modifications and adjustments (8.2,8.5);

--- Developed a life of boiler log format "Life boiler operation record" and life assessment of boiler economy recorded a uniform format "Life boiler economy Assessment Form" (Appendix A, Appendix B). Appendix B of this standard is a normative appendix, Appendix A is an information appendix. This standard by the National Standardization Technical Committee for Energy Management and focal points. This standard is drafted by: China National Institute of Standardization, Special Equipment Inspection and Research Institute of Zhejiang Province, the Guangzhou-day deer Boiler Co., Ltd., West An Energy Research Council. Participated in the drafting of this standard. true Haiyu Water Treatment Technology Co., Weinan in Shaanxi Province Boiler Plant, Shaanxi Science and Technology Co., L Greig SECRETARY Shaanxi Memec thermal Technology Co., Ltd., Zhejiang Boiler Co., Ltd. Teflon. The main drafters of this standard. Zylon mo, Jia Tieying, Ding Shou-bao, a Defang, seats behalf of the country, Wang Yazhen Sun Road, west Cheng, Zhang Union, Deng Longjiang, Zhaoguo Ling. This standard replaces the standards previously issued as follows:

--- GB/T 18292-2001. Life boiler economy

## 1 Scope

GB/T 18292-2009 is the Chinese national standard on economical operation of domestic boilers, in the field of energy and heat transfer engineering. 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 11 March 2009 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 November 2009. Classification: ICS 27.010, CCS F01. 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 definition of the economic life of the boiler operation, the basic requirements to run classifications, technical indicators, monitoring and assessment methods. This standard applies to coal, oil, gas as fuel, water as a medium fixed rated working pressure of less than or equal to 1.0MPa and rated Evaporation less than 1t/h of steam boilers or rated thermal power less than 0.7MW of pressure hot water boilers and pressure hot water boiler. This standard does not apply to organic heat carrier furnace, stove, electric heating boilers and waste heat boilers.

## 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 4272 General technical equipment and pipeline insulation

GB 5749 drinking water health standards

GB 8978-1996 Integrated Wastewater Discharge Standard

GB/T 10820 living boiler thermal efficiency and thermal test methods

GB 13271 boiler air pollutant emission standards

GB/T 15317 Industrial Boiler Energy Conservation Monitoring Methods

GB/T 16811 industrial boiler water treatment facilities operating results and monitoring

GB 50041 boiler room design specifications

GB 50273 industrial boiler installation engineering construction and acceptance

JB/T 7985 small boilers and pressure hot water boiler technical conditions

JB/T 10094 industrial boilers General technical requirements Steam Boiler Safety Technology Supervision Hot Water Boiler Safety Technology Supervision Small and atmospheric pressure hot water boiler safety monitoring requirements

### 3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Can provide some parameters of saturated steam or hot water, it is mainly used for thermal heating equipment, bath, food and other living services.

3.2 In meeting the operational safety, reliability, environmental protection and heating requirements of the premise, through scientific management, technological innovation, improve operations running water Flat, so life with the boiler in efficient, energy-saving, water-saving operation.

### 4 Basic requirements

4.1 Life boiler unit should be preferred nationally recommended energy-saving products, can not use national publication out of product.