

ICS 91.140
CCS P 45

CJ

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

CJ/T 29-1999

**Water boiling gas appliance
(English Translation)**

Issued on: January 1, 1970

Implemented on: December 1, 2019

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

Table of Contents

Foreword	
1 Scope	
2 Normative references	
10 Packaging, transport and storage	23
Foreword	

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces CJ/T 29-2003 "Gas Water Booster". The main technical changes compared to CJ/T 29-2003 are as follows.

- Increased appearance (see 6.1);
- Modified the requirements for sealing (see 6.2, 5.2.1 of the 2003 edition);
- Supplementary requirements for combustion conditions (see 6.4, 5.2.7 of the 2003 edition);
- Modified the flameout protection device (see 6.5, 5.2.9 of the 2003 edition);
- Increased igniter performance (see 6.6);
- Added safety device with fan boiler (see 6.7);
- Revised the requirements for surface temperature rise (see 6.8, 5.2.8 of the 2003 edition);
- Added electrical performance (see 6.9, 2003 edition 5.2.21);
- Increased the requirements for auxiliary power supply (see 6.10);
- Modified thermal efficiency (see 6.11, 5.2.6 of the 2003 edition);
- Increased water production rate requirements for continuous boilers (see 6.13);
- Increased the requirements for exhaust gas temperature (see 6.14);
- Increased durability requirements for flameout protection devices, igniters, and gas valves (see 6.17);
- Increased the boiling water temperature requirements (see 6.18);
- Increased insulation performance requirements (see 6.19);

--- Added test methods (see Chapter 7, Appendix A of the 2003 edition);

--- Removed the standard necessity assessment (see Chapter 4 of the 2003 edition).

This standard is consistent with GB 16914-2012 "Safety Technical Conditions for Gas Burning Appliances", and Appendix A gives support for this standard.

The correspondence table of the basic requirements of GB 16914-2012.

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Gas Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

This standard was drafted. Beijing Public Utilities Research Institute, Beijing Gas and Gas Appliances Product Quality Supervision and Inspection Station, Zhejiang Fangyuan Testing Group Co., Ltd., Hangzhou Zhongxin Stainless Steel Products Co., Ltd., Beijing Yanshan Industrial Gas Equipment Co., Ltd., Ningbo City Baiyue Jiacheng Kitchen Engineering Co., Ltd., Zhejiang Xushi Kitchen Equipment Co., Ltd., Yongkang Shengda Stainless Steel Products Co., Ltd., Taizhou City Yuefeng Technology Co., Ltd., Beijing Police Shield Jingxi Kitchen Equipment Co., Ltd., Beijing Gas Group Research Institute.

1 Scope

This standard specifies the classification and type of atmospheric pressure fixed gas boilers that use GB/T 13611 as the fuel for urban gas.

Construction and materials, performance requirements, test methods, inspection rules, signs, warnings and instructions for use, as well as packaging, transportation and storage.

This standard is applicable to indoor atmospheric fixed non-condensing gas boilers with a rated heat load of not more than 100 kW for the preparation of drinking water.

(hereinafter referred to as "boiling water").

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon GB/T 1527 copper and copper alloy drawn tube GB/T 2828.2. Sampling procedures for sampling by sampling - Part 2. Sampling plan for isolated batch inspections by means of limit quality (LQ) GB/T 3091 welded steel pipe for low pressure fluid transportation GB/T 3287 malleable cast iron pipe joint Safety of

household and similar electrical appliances - Part 1. General requirements GB 4806.9
National Food Safety Standards Metal Materials and Products for Food Contact GB/T
5013.1-2008 Rubber insulated cables with rated voltages up to and including GB/T 7306
(all parts) 55° sealed pipe thread GB/T 7307 55° unsealed pipe thread GB/T 8163
seamless steel pipe for conveying fluid GB/T 8464 iron and copper threaded connection
valve GB/T 9969 General guidelines for the use of industrial products GB/T 12771 stainless
steel welded steel pipe for fluid transportation GB/T 13306 signage GB/T 13611 town gas
classification and basic characteristics GB/T 16411 General test method for household gas
appliances GB 16914-2012 Safety technical conditions for gas burning appliances GB/T
17219 Safety evaluation criteria for drinking water distribution equipment and protective
materials GB/T 21873 Rubber seals, drain pipes and sewage pipes for interface seal
material specifications GB 25034-2010 Gas heating water heater GB/T 26002 stainless
steel corrugated hose and fittings for gas transmission GB/T 26120 low pressure stainless
steel threaded pipe fittings GB 35848-2018 Commercial gas burning appliances CJ/T 30
thermoelectric burner flameout protection device CJ/T 180 manual gas valve for
construction CJ/T 346 Household Gas Automatic Stop Valve CJ/T 29-2019 Water boiling
gas appliance ICS 91.140 P45 People's Republic of China urban construction industry
standards Replacing CJ/T 29-2003 Gas boiler Published on 2019-03-27 2019-12-01
implementation Ministry of Housing and Urban-Rural Development Content Foreword I

1 Scope 1

2 Normative references 1

3 Terms and Definitions 2

4 Classification and Model 2

5 Structure and materials 3

6 Performance requirements 6

7 Test method 10

8 Inspection rules 20 9 signs, warnings and instructions for use 22

10 Packaging, transport and storage 23

Appendix A (informative) This standard supports the provisions of the basic requirements of
GB 16914-2012. Table 24

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces CJ/T 29-2003 "Gas Water Booster". The main technical changes
compared to CJ/T 29-2003 are as follows.

- Increased appearance (see 6.1);
- Modified the requirements for sealing (see 6.2, 5.2.1 of the 2003 edition);
- Supplementary requirements for combustion conditions (see 6.4, 5.2.7 of the 2003 edition);
- Modified the flameout protection device (see 6.5, 5.2.9 of the 2003 edition);
- Increased igniter performance (see 6.6);
- Added safety device with fan boiler (see 6.7);
- Revised the requirements for surface temperature rise (see 6.8, 5.2.8 of the 2003 edition);
- Added electrical performance (see 6.9, 2003 edition 5.2.21);
- Increased the requirements for auxiliary power supply (see 6.10);
- Modified thermal efficiency (see 6.11, 5.2.6 of the 2003 edition);
- Increased water production rate requirements for continuous boilers (see 6.13);
- Increased the requirements for exhaust gas temperature (see 6.14);
- Increased durability requirements for flameout protection devices, igniters, and gas valves (see 6.17);
- Increased the boiling water temperature requirements (see 6.18);
- Increased insulation performance requirements (see 6.19);
- Added test methods (see Chapter 7, Appendix A of the 2003 edition);
- Removed the standard necessity assessment (see Chapter 4 of the 2003 edition).

This standard is consistent with GB 16914-2012 "Safety Technical Conditions for Gas Burning Appliances", and Appendix A gives support for this standard.

The correspondence table of the basic requirements of GB 16914-2012.

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Gas Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

This standard was drafted. Beijing Public Utilities Research Institute, Beijing Gas and Gas Appliances Product Quality Supervision and Inspection Station, Zhejiang Fangyuan Testing Group Co., Ltd., Hangzhou Zhongxin Stainless Steel Products Co., Ltd., Beijing Yanshan Industrial Gas Equipment Co., Ltd., Ningbo City Baiyue Jiacheng Kitchen Engineering Co., Ltd., Zhejiang Xushi Kitchen Equipment Co., Ltd., Yongkang Shengda Stainless Steel