



# **Code for Facilities, Technology and Inspection for Manufacturing of Gas–Fired Central Heating Boilers of Forced Supply and Forced Exhaust Types**

Deliberation/Resolution by Gas Technical Standards Committee : October 18, 2019

Approval by the Ministry of Trade, Industry & Energy : March 18, 2020



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### History of Establishment and Revision of KGS Code

Code Number	KGS AB131 <sup>2020</sup>
Code Title	Code for Facilities, Technology and Inspection for Manufacturing of Gas Fired hot water boilers of forced exhaust (FE) and forced feed-exhaust (FF) types

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August 13, 2012	Revised (Notification of the Ministry of Knowledge Economy No. 2012-391)
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# **Code for Facilities, Technology and Inspection for Manufacturing of Gas Fired hot water boilers of forced exhaust (FE) and forced feed-exhaust (FF) types**

## **1. General**

### **1.1 Scope**

**1.1.1** This Code applies to facilities, technology and inspection for manufacturing of gas hot water boilers of forced exhaust (FE) and forced feed-exhaust (FF) types (hereinafter referred to as "boilers") in conformity to the following (1) and (2) among the combustion equipment in conformity to the Enforcement Regulation of the Safety Control and Business Regulation of Liquefied Petroleum Gas Act (hereinafter referred to as "Enforcement Regulation"), Table 3, No. 10 and Table 7, No.4-j. <Revised on November 4, 2015>

**(1)** Boilers of which total heat input does not exceed 70 kW(60,000 kcal/h) on the basis of gross heating value (gross heating value based on 15°C and 1 atm; hereinafter the same shall apply unless otherwise specified), and <Revised on April 5, 2012>

**(2)** Boilers of which gas working pressure does not exceed 3.3kPa.

### **1.2 Validity of Code**

**1.2.1** This Code has passed the deliberation and resolution by Gas Technical Standards Committee (Bill No. 2019-8, October 18, 2019) in conformity to the High Pressure Gas Safety Control Act (hereinafter referred to as "High Pressure Gas Act"), Article 33-2 in accordance with the Safety Control and Business Regulation of Liquefied Petroleum Gas Act, Article 45, Clause 1, has been approved by the Minister of Trade, Industry & Energy (Notification No. 2020-167 of the Ministry of Trade, Industry & Energy, March 18, 2020), and is valid and effective as the detailed standards in conformity to the Act, Article 45, Clause 1.

**1.2.2** Conformity to this Code is deemed to conform to Table 7 of the Enforcement Regulation of the Act in accordance with the Act, Article 45, Clause 4. <Revised on November 4, 2015>

## 1.3 Reference Codes and Standards

### 1.3.1 Inspection standard for new technology products

In case the Minister of Knowledge Economy acknowledges that the new manufacturing and inspection methods of boilers developed through new technology development do not meet the standard for facility, technology and inspection in conformity to this Code in accordance with the Enforcement Regulation, Table 7, No. 5-a but do not hinder safety control, such manufacturing and inspection methods of those boilers may apply only restrictively to them. <Revised on May 15, 2009>

### 1.3.2 Manufacturing registration standard for foreign products <Newly established on June 26, 2012>

The "manufacturing installation standards and manufacturing technology standards of foreign countries" specified in the Enforcement Regulation, Article 17, proviso of Clause 3 mean the detailed standards in conformity to the Act, 45. <Revised on November 4, 2015>

## 1.4 Definitions

The terms used in this Code are defined as follows:

**1.4.1** "Regular quality inspection" means the performance inspection performed by taking samples from products manufactured in mass production to check whether the products which are to undergo production stage inspection are the same products manufactured as those that have undergone design stage inspection.

**1.4.2** "Routine sample inspection" means the inspection performed to check on the basic product performance by taking samples from the same products manufactured in the same production lot for the products to undergo product identification inspection.

**1.4.3** "Occasional quality inspection" means the inspection performed by taking samples without any advance notice from products produced in mass production in order to check whether the products which have undergone production process inspection or comprehensive process inspection are being manufactured in the same way as those that have undergone design stage inspection.

**1.4.4** "Process identification audit" means the audit conducted to check on the conformity of