



Installation/Inspection Code for Residential Gas Boilers

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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KGS Code Establishment/Revision History	
Item Code No.	KGS GC208 2020
Code Name	Installation/Inspection Code for Residential Gas Boilers

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Installation/Inspection Code for Residential Gas Boilers

1. General Matters

1.1. Scope of Application

This standard applies to the installation of a gas boiler used for residential purpose {means the case where a gas boiler is used in a house, etc. as an individual exhaust type or for individual heating and, in the case where a gas boiler is used for central heating in an apartment, etc. or two or more gas boilers are used being connected with a flue pipe in a house, KGS GC209 (Installation/Inspection Code for Commercial and Industrial Gas Boilers) shall be applied} among the water heaters (exclusive of open type water heaters) and hot water boilers (hereinafter referred to as "gas boilers") pursuant to Attached Table 7, Subparagraph 4, Item i of the 「Enforcement Regulations of the Safety Control and Business of Liquefied Petroleum Gas Act」. However, the cases of the gas boilers of which the gas consumption exceeds 232.6 kW (200,000 kcal/h) and the gas boilers which satisfy all the following conditions from (1) to (3) are excluded:

- (1) Gas boilers controlled by a safety manager pursuant to the 「Safety Control and Business of Liquefied Petroleum Gas Act」 (hereinafter referred to as "LP Gas Act") and the 「Urban Gas Business Act」 (hereinafter referred to as "Urban Gas Act") or an operator of the equipment subject to inspection pursuant to 「Energy Use Rationalization Act」
- (2) Gas boilers installed in the same room with a combustor that uses any other fuel than LPG and urban gas or a combustor of which the gas consumption exceeds 232.6 kW (200,000 kcal/h)
- (3) Gas boilers equipped with a backflow preventer to prevent exhaust gas from flowing backward during operation or in a stationary state

Table 1.1 Application Standard by Installation Location and Form of Boiler

Classification		Application Standard
Single houses	Individual exhaust type	KGS GC208
	Cascade type	KGS GC209
Apartments	For individual heating	KGS GC208
	For central heating	KGS GC209
	Individual exhaust type (not more than 70 kW)	KGS GC208

Shopping centers, factories, etc.	Individual exhaust type (more than 70 kW)	KGS GC209
	Cascade type	KGS GC209
	Forced flue type (common connecting flue pipe)	KGS GC209

※ KGS GC208: Installation/Inspection Code for Residential Gas Boilers

※ KGS GC209: Installation/Inspection Code for Commercial and Industrial Gas Boilers

1.2. Effectiveness of Standard

1.2.1 This standard has been approved by the Minister of Trade, Industry and Energy (Notification of the Ministry of Trade, Industry and Energy, No. 2020-167, Mar. 18, 2020) after undergoing the deliberation/resolution of the Gas Technical Standard Committee established pursuant to Article 33-2 of the 「High-pressure Gas Safety Control Act」 (Agenda no. 2019-8, Oct. 18, 2019) in accordance with Article 17-5, Paragraph 2 of the Urban Gas Act and Article 45, Paragraph 2 of the LP Gas Act, and has an effect as a detailed standard pursuant to Article 17-5, Paragraph 1 of the Urban Gas Act and Article 45, Paragraph 1 of the LP Gas Act.

1.2.2 If this standard is complied with, the residential gas boiler shall be regarded to conform to Attached Table 7 of the 「Enforcement Regulations of the Urban Gas Act」 and Attached Table 20, Subparagraphs 1, 2, and 3 of the 「Enforcement Regulations of the LP Gas Act」 pursuant to Article 17-5, Paragraph 4 of the Urban Gas Act and Article 45, Paragraph 4 of the LP Gas Act <Revised on Aug. 10, 2018>.

1.3. Terms and Definitions

The meanings of the terms used in this standard are as follows:

1.3.1 “Flue pipe” means a pipe used to transfer exhaust gas of gas boilers such as a vent, connecting flue pipe, or a chimney.

1.3.1.1 “Vent” is related to a case where a gas boiler is used as an individual exhaust type and means a flue pipe through which the exhaust gas coming out of a gas boiler is directly discharged to the outside air without going through the connecting flue pipe or the chimney.

1.3.1.2 “Connecting flue pipe” is a flue pipe that connects a gas boiler to the chimney and means a pipe that connects the outlet of a gas boiler to the inlet of a chimney.