



APPROVED

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## TECHNICAL REGULATIONS OF CUSTOMS UNION

### «On safety devices, operating on fuel gas»

(TR CU 016/2011)

#### Foreword

1. This technical regulation was developed in accordance with the Agreement on common principles and rules of technical regulation in the Republic of Belarus, the Republic of Kazakhstan and the Russian Federation on November 18, 2010.
2. This technical regulation establishes the common customs territory of the Customs Union, a obligatory to implement and enforce the requirements to devices operating on gaseous fuel (hereinafter - Gas-using equipment) in order to ensure the free movement of gas-using equipment into circulation in the common customs territory of the Customs Union.
3. If for of gas-using equipment will be accepted other technical regulations of the Customs Union, establish requirements for gas-using equipment, other than the requirements of the technical regulations, Gas-using that equipment must meet the requirements of the technical regulations of the Customs Union, the action of which it is subject.

#### Article 1. The field of application

1. This technical regulation applies to Gas-using equipment produced for circulation in the common customs territory of the Customs Union.
2. This technical regulation under the gas-using equipment means:
  - a) equipment used for cooking, heating and hot water systems, including equipment in structure of combined apparatus,
  - b) block automatic burners and gas-using equipment with block automatic burner specified in paragraph "a" of this paragraph

c) devices destined for integration in equipment and being in circulation separately from the equipment mentioned in paragraphs "a" and "b" above, including devices of control, regulation and safety.

3. The requirements of these technical regulations are set for gas-using equipment, list provided in Annex 1.

4. This technical regulation shall not apply to the following types of gas-using equipment:

a) steam boilers with steam pressure over 0.07 MPa and hot water boilers with a temperature of over 115 ° C,

b) equipment for use in manufacturing processes in industrial plants, with the exception of gas-using equipment, included in the list in Annex 1;

c) equipment that uses gas as a motor fuel.

5. The essential features characterizing Gas-using equipment are:

a) the name, model (type) and the appointment of gas-using equipment,

b) the type and nominal pressure of the gas used,

c) the rated output,

d) the voltage and frequency of the electrical current (for gas-using equipment to be connected to the power supply).

6. Identification of gas-using equipment is carried out with the grounds mentioned in paragraph 5 of Article 1 of this technical regulation by comparison with the characteristics of gas-using equipment specified on the package, labeling and in the documentation.

7. This technical regulation specifies the requirements for gas-using equipment for the protection of life and (or) human health, property, the environment, life and (or) animal and plant health, prevention of actions misleading consumers (users) on his appointment and safety and in order to ensure energy efficiency and resource conservation.

## **Article 2. Definitions**

This technical regulation, the following terms and definitions:

"Ventilation chamber" - the process of displacement air unburned gas in the combustion chamber of gas-using equipment and chimneys in the absence of gas supply to the burner,

"The ignition gas burner devices" - the time from submission gas to the burner ignition and flame spread across the surface of gas-burning appliances;

"Gas path" - part of the equipment between the main shut-off valve and the burner (burner), which is served or which is gas,

"Gaseous fuel" - fuel in the gaseous state at a temperature of 15 °C and atmospheric pressure of 101.325 kPa,

"Burner with complete premixing" - the burner, in which the gas is mixed with the combustion air to the burner outlets or fed with the fuel mixture is ready,

"Ignition" - a process in which there is inflammation of the air-gas mixture ignition and (or) the registration of the main burner flame;

"Dual Fuel" - the burner is designed to separate combustion of gaseous or liquid fuels "rule of gas leakage" - the permissible value of leakage of the gas paths in the gas supply at the inlet and in the closed position control devices, control and safety,

"Gas-using circulation equipment on the market" - the process of transition gas-using equipment from the manufacturer to the consumer (user) Gas-using equipment that is after its manufacture;

"Party of gas-using equipment" - definitely the number of units identified gas-using equipment, manufactured in the same process conditions,

"Re-ignition" - ignition, where construction equipment is provided that after the flame goes out during operation stops the gas supply to the burner and starts executing the specified program automatically start the burner;

"Starting power" - the average power gas-using equipment during the interval of time from the gas supply to the burner flame to check;

"Technical Documentation" - a system of graphics and text documents used in the design, manufacture and operation of gas-using equipment (components, assemblies, systems, and components);

"Standard sample" - identified by function and design of the sample gas-using equipment, manufactured in the same the same process conditions selected for conformity assessment;

"Safety device" - a device that automatically cuts off the gas supply to the main burner at a deviation of monitored parameters exceed the limits.

### **Article 3. Rules of market circulation**

1. Gas-using equipment into circulation in the market when it is under this technical regulation, and other technical regulations of the Customs Union, the action of which it is subject, and provided that it was confirmation of compliance in accordance with Article 6 of the technical regulations, as well as under other technical regulations Customs union, the action of which it is subject.

#### **Article 4. Safety requirements**

1. Gas-using equipment must exclude the risk of explosion from an external source of ignition.
2. Burner with complete premixing should exclude the risk of explosion at all designed for this mode of burning gaseous fuels.
3. Combination burner must ensure the safety gas-using equipment in the separate combustion of gaseous and liquid fuels.
4. The design of the gas system gas-using equipment should exclude the excess of the established manufacturer maximum leak rate of the gas.
5. Connection of the gas path must be tight.
6. Gas-using equipment should ventilate the combustion chamber by means of natural draft or forced air prior to ignition and re-ignition burners.
7. Starting power and time of ignition burner gas-using equipment during ignition and re-ignition, the number of attempts the ignition off time at the gas flame failure should be limited to prevent dangerous accumulation of unburned gas.
8. The burner must ensure a smooth ignition and ignition uniform across the surface of the burner.
9. Gas-using equipment designed for use in interior spaces and rooms must have a device that ensures the prevention of accumulation of unburned gas. Gas-using equipment may be used without such a device in the premises, in accordance with the requirements for ventilation set in the installation, maintenance and repair of gas-using equipment.
10. The design of gas-using equipment shall not create a risk of fire support and adjacent to gas-using equipment surfaces.
11. Gas-using equipment must ensure the stability of the flame and combustion in the absence of unacceptable concentrations of oxides of carbon and nitrogen.
12. Gas-using equipment connected to the chimney must exclude an accidental release of combustion products into the room.
13. Gas-using equipment connected to the chimney must assure that the gas supply to the burner for violations in the system venting.
14. Safety device of gas-using heating and water heating equipment not connected to the chimney and not equipped with an exhaust device for venting must maintain control of the atmospheric air and stop the gas flow to the burners at the concentration of carbon dioxide in the air space above the maximum allowable concentration.

15. Condensate from start-up, should not affect the safety of gas-using equipment.
16. Gas-using equipment must exclude condensation burning gaseous fuels (except gas-using equipment operating in condensing mode.)
17. The materials used in the manufacture of gas-using equipment to come into contact with food or water used for sanitary purposes, must not lead to a deterioration of their quality.
18. Gas-using equipment should preclude the emergence of unstable positions, deformation, damage or deterioration to impair their safety during the service life.
19. All parts are under pressure, must withstand the mechanical and thermal stress performance in order to avoid deformation affecting safety gas-using equipment.
20. The materials used in the manufacture of gas-using equipment must conform to the purpose and to be resistant to mechanical, thermal and chemical stresses to which they will be over the life of the equipment.
21. Heating of the surface of hand controls and external surfaces of gas-using equipment, with which the user can communicate with the except for surfaces that serve as heat or heated flame should not lead to thermal burns.
22. The design of gas-using equipment for hot water should provide the device, excluding thermal burn by water used in the water system.
23. Fluctuations in electrical voltage or changing the characteristics of power supply, and power outage and the subsequent recovery is to violate safety gas-using equipment.
24. Gas-using equipment connected to the mains, should provide protection against electric shock.
25. If the equipment is fitted with Gas-using control devices, their work should not disrupt the functioning of the safety devices.
26. Gas-using equipment must protect in the event of failure of any of the control devices, control or safety.
27. Control device, regulation and shut-off valve gas-using equipment should be marked and the appropriate instructions prevent erroneous actions by the user.
28. Safety devices, controlling and regulating gas-using equipment, installed and managed by the manufacturer and do not require adjustment of the installer or user shall be adequately protected.
29. In the documentation specifies the information that restrict the terms of gas-using equipment or notification need to take measures to ensure safety. Information requirements contained in the documentation are set out in Annex 2 to the present technical regulation.

30. Information requirements contained in the labeling gas-using equipment, set out in Annex 3 to this technical regulation.

### **Article 5. Compliance with safety requirements**

1. Compliance with gas-using equipment requirements of this technical regulation is ensured by its requirements directly, or compliance with the requirements of interstate standards, and in their absence (before the adoption of interstate standards) - the national (state) standards states - members of the Customs Union, the result of which is on a voluntary basis, compliance with the technical regulations of the Customs Union, and standards containing rules and methods (tests) and measurements including the rules of sampling necessary for the application and enforcement of technical regulations Customs Union and the implementation of the assessment (confirmation) of products (hereinafter - the standards).

Implementation of voluntary standards requires evidence of compliance with the safety requirements of the technical regulations.

2. The lists of the standards referred to in paragraph 1 of this Article, the Commission approves the Customs Union (hereinafter - the Commission).

### **Article 6. The confirmation of conformity**

1. The confirmation of conformity with the requirements of gas-using equipment of this technical regulation is binding and is in the forms of declaration of conformity or certification.

2. Form of conformity provided for certain types (types) of gas-using equipment are listed in Annex 1 to this technical regulation.

3. The confirmation of conformity with gas-using equipment are carried out on set in the technical regulations in accordance with the Regulations on the use of standard evaluation schemes (confirmation) of compliance with the technical regulations of the Customs Union, approved by the Commission.

4. At the request of the applicant's declaration of compliance can be replaced by certification schemes certification, equivalent circuits of declaration correspondence provided for gas-using equipment of these technical regulations, including the absence or insufficiency of the applicant's own evidence confirming compliance with the requirements of the technical regulations.

5. Declaring of conformity gas-using equipment is one of the following schemes:

**Scheme 1D** - declaring of conformity gas-using equipment, manufactured in series, based on tests of standard samples gas-using equipment of the manufacturer, and production control carried out by the manufacturer;

**Scheme 2D** - declaring of compliance Party (single product) gas-using equipment on the basis of tests of type specimens (single product) gas-using equipment held by the applicant

**Scheme 3D** - declaring of conformity gas-using equipment produced series, based on tests of standard samples gas-using equipment, carried out by accredited testing laboratory (Center), included in the Unified Register of certification bodies and testing laboratories (centers) of the Customs Union (hereinafter - accredited testing laboratory), and production control carried out by the manufacturer;

**Scheme 4D** - declaration of compliance Party (single product) gas-using equipment on the basis of the test results type specimens (single product) gas-using equipment, carried out by accredited testing laboratory (center).

Selecting a declaration of compliance by gas-using equipment manufacturer (a person authorized by the manufacturer), importer.

When declaring the respective parties gas-using equipment schemes 2D, 4D applicant may be registered in accordance with the laws of the state - a member of the Customs Union on its territory, a legal entity or natural person, as a sole proprietorship or are the manufacturer or seller or performing the functions of the foreign manufacturer under a contract with them, in terms of ensuring compliance with the supplied products to the requirements of the technical regulations, and part of the responsibility for non-compliance of delivered products to the requirements of the technical regulations of the Customs Union (the person performing the functions of the foreign manufacturer.)

When declaring compliance with gas-using equipment, manufactured in series, the schemes 1D, 3D applicant may be registered in accordance with the laws State - a member of the Customs Union on its territory legal entity or natural person, as an individual entrepreneur or the manufacturer, or performing the functions of the foreign manufacturer under a contract with them, in terms of products supplied comply with the requirements of the technical regulations, and part of the responsibility for non-compliance of delivered products to the requirements of the technical regulations of the Customs Union (the person performing the functions of the foreign manufacturer.)

6. When declaring compliance schemes 1D, 2D shapes applicant to evidentiary materials to confirm compliance with the requirements of this gas-using equipment technical regulations. In evidentiary materials used technical documentation, the results of their investigations (tests) and measurements.

7. Evidentiary materials in the declaration of conformity schemes 1D, 2D should include:



- a) the technical description of conformity (with no manual),
- b) the technical documentation that led to the declaration of compliance with the declared gas-using equipment requirements of this technical regulations;
- c) the report (s) of gas-using equipment tests carried out by the applicant, and (or) accredited testing laboratory;
- d) operational documents,
- e) a list of the standards referred to in paragraph 1 of Article 5, which should meet the requirements of this gas-using equipment (when used by the manufacturer) ,
- f) an explanatory note containing a description of the technical solutions, confirm the safety of this technical regulations, if the standards referred to in paragraph 1 of Article 5 are not available or have not been applied;
- g) shipping documentation (for the party, a single product),
- h) certificate on quality management system of the manufacturer (if available);
- i) information on the researches (if any)
- j) other documents, directly or indirectly, confirming compliance with the gas-using equipment safety requirements of this technical regulations (if any).

8. When declaring compliance schemes 3D, 4D applicant along with its own evidentiary materials uses evidence obtained with the certification authority (assessment (confirmation)) included in the Unified Register of certification bodies and testing laboratories (centers) of the Customs Union (hereinafter - the certification authority (assessment (confirmation))), and (or) accredited testing laboratory.

In addition to the evidentiary materials provided for in subparagraphs a) - i) of paragraph 7 of Article 6 of these technical regulations, includes the protocol prototype test gas-using equipment held accredited testing laboratory (center) (hereinafter - the test report), and the results of the production control from the manufacturer (in the declaration of conformity scheme 3D).

9. Conformity declaration includes the following procedures performed by the applicant:
- a) the formation and analysis of technical documentation
  - b) the implementation of the production control in the declaration of conformity schemes 1D, 3D;
  - c) a prototype test gas-using equipment (single product) applicant (scheme 1D, 2D) and (or) in an accredited Testing Laboratory (schemes 3D, 4D),
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d) execution and registration of declaration of conformity in accordance with the procedure approved by the Commission of the Customs Union,

e) marking by unified mark of product circulation on the market of the Member States of the Customs Union.

Declaration of Conformity is issued on a single form, approved by the Commission of the Customs Union.

10. The term of the declaration of conformity for gas-using equipment, manufactured commercially - no more than 3 years for gas-using party equipment (a single product) term of the declaration of conformity is not installed.

Declaration of Conformity Party gas-using equipment requirements of this technical regulation applies only to equipment related to a specific party.

11. Certification of gas-using equipment on the basis of the contract between the applicant and certification body (assessment (confirmation) compliance) schemes set forth in paragraph 12 of Article 6 of the Technical Regulations.

12. To confirm compliance with the requirements of gas-using equipment of this technical regulation establishes the following certification schemes:

a) **scheme 1C** - certification of gas-using equipment, manufactured in series, based on tests of standard samples, carried out by accredited testing laboratory (center), with the implementation of the analysis of the production of gas-using equipment and subsequent control by the certification (assessment (confirmation)) certified gas-using equipment;

b) **scheme 3C** - party certification gas-using equipment on the basis of tests of type specimens gas-using equipment, carried out by accredited testing laboratory (center)

c) **scheme 4C** - certification of single samples of gas-using equipment on the basis of the results of tests carried out by accredited testing laboratory (center).

13. Gas-using equipment in the certification scheme 1C applicant may be registered in accordance with the laws of the state - a member of the Customs Union on its territory a legal entity or natural person as an individual entrepreneur or the manufacturer, or to perform the functions of the foreign manufacturer under a contract with them, in terms of products supplied comply with the requirements of these technical regulations, and part of the responsibility for non-compliance of delivered products to the requirements these technical regulations Customs Union (the person performing the functions of the foreign manufacturer).

Gas-using equipment in the certification schemes 3C and 4C, the applicant may be registered in accordance with the laws of the State - a member of the Customs Union on its territory a legal entity or natural person as an individual entrepreneur, or are a manufacturer or seller, or performing the functions of the foreign manufacturer under a contract with them, in terms of

products supplied comply with the requirements of these technical regulations and in part responsible for the discrepancy supplied products to the requirements of this technical regulations of the Customs Union (the person performing the functions of the foreign manufacturer.)

14. For the implementation of gas-using equipment certification applicant generates a set of documents, which must include:

- a) the technical documentation of gas-using equipment,
- b) a list of the standards referred to in paragraph 1 of Article 5, which should meet the requirements of this gas-using equipment (if applicable);
- c) an explanatory note containing a description of the technical solutions, confirm the safety of these technical regulations, if the standards referred to in paragraph 1 of Article 5 are not available or not used;
- d) testing protocol (s) of typical model (single) sample carried out by the manufacturer or an accredited testing laboratory (if any);
- e) Certificate of Conformity (Declaration of Conformity) for devices that are in circulation separate from gas-using equipment intended for installation in gas-using equipment (if such , embedded in hardware)
- f) the certificate (a copy of the certificate) on quality management system (if any),
- g) other documents at the option of the applicant, directly or indirectly, confirming compliance with the gas-using equipment requirements of this technical regulation.

15. Certification of gas-using equipment includes the following procedures:

- a) feeding the applicant certification body (assessment (confirmation)) application for certification gas-using equipment (hereinafter - The application) to the attached set of documents referred to in paragraph 14 of this article,
- b) the consideration of the application and the acceptance of a decision by the certification (assessment (confirmation)),
- c) the choice by the certification body (assessment (confirmation)) typical samples of gas-using equipment for testing in an accredited testing laboratory (center);
- d) testing the sample (s) of gas-using equipment by accredited testing laboratory (center);
- e) carrying out by the certification body (assessment (confirmation)) the analysis presented by the applicant a set of documents,
- f) carrying out analysis of the gas-using equipment production state the manufacturer by the certification body (assessment (confirmation)), if this analysis is provided by appropriate certification scheme.

If the manufacturer has certified Quality Management System and development and production of gas-using equipment, Certification Body (assessment (confirmation)) evaluates the ability of the system to ensure stable production of certified gas-using equipment that meets the requirements of these technical regulations,

g) the summary of the results of tests, analysis and technical documentation and state of manufacturing gas-using equipment or assess the quality management system and the positive result of the issuance of the certificate of conformity to the applicant;

h) single sign marking of products on the market of the - of the Customs Union;

i) inspection control of a certified gas-using equipment, if such control is provided by the certification scheme.

16. The applicant submits an application of your choice in any of the certification bodies (assessment (confirmation).)

17. If the scheme provides for certification tests, the applicant shall submit to the certification body (assessment (confirmation)) standard sample of gas-using equipment, which is given production. The test report may cover several models (types) of gas-using equipment in provided that the difference between the models (types) does not affect the level of safety and other requirements for use of gas-using equipment. If necessary, additional tests cannot be performed on already selected with the type certification authority (assessment (confirmation)) may be taken further to be observed.

18. Test of typical sample carries out by accredited testing laboratory (center) on the basis of a contract with the applicant or by the certification body (Assessment (confirmation)) issued a test report. Allowed to carry out testing of typical sample by an accredited test laboratory (center) with the manufacturer or on site of operating if a representative sample meets the criteria set forth in paragraph 6 of Article 1 of this Technical regulation.

19. With the positive results of the analysis provided by the applicant technical documentation, prototype test results and analysis of the production of gas-using equipment certification authority (assessment (confirmation)) issue a certificate of conformity, it registers and issue to the applicant.

In the case of a negative result of certification body sends the applicant a reasoned decision to refuse to issue a certificate of conformity.

Certificate is issued on a single form, approved by the Commission of the Customs Union.

The duration of the certificate of conformity for a gas-using equipment - no more than 5 years for the series-produced. The duration is not installed for the delivered party. Certificate of conformity in respect of the party is only gas-using equipment to equipment belonging to a particular party.

20. Applicant, including the applicant, who is the seller (supplier) of gas-using equipment, marks gas-using equipment a [single sign of products on the market states - members of the Customs Union](#) on the basis of this certificate of conformity.

21. Certification body (assessment (confirmation)) at least once every two years during the term of the certificate of conformity conducts inspection control of certified gas-using equipment, mass-produced by testing samples in an accredited testing laboratory (center) and (or) the analysis of the production of gas-using equipment, if this analysis is provided by appropriate certification scheme. The selection of the type of the test at the discretion of the certification (assessment (confirmation)) is carried out by the manufacturer or seller.

22. Keeping documentation.

Technical documentation, including proof of compliance in the states - members of the Customs Union, should be stored:

for gas-using equipment – with the manufacturer (the person performing the functions of the foreign manufacturer) for at least 10 years from the date of withdrawal (termination) with the production of this equipment;

for party of gas-using equipment (single product) - with the seller (supplier) manufacturer (the person performing the functions of the foreign manufacturer) for at least 10 years from the date of implementation of the last product of the party.

The documents and materials, confirming the results of certification, are stored in the certification body that issued the certificate of conformity for at least 5 years after the expiration of the certificate of conformity.

Above documents must be provided by state control (supervision) on request.

## **Article 7. Marking with unified mark of product circulation on the market of the Customs Union Member states**

1. Gas-using equipment that meets the requirements of these technical regulations established by the present and past technical regulations conformity assessment procedures shall be marked with a mark of one product on the market states - members of the Customs Union.

2. Single sign of products on the market states - members of the Customs Union is applied to each unit of gas-using equipment. Single sign of products on the market states - members of the Customs Union is applied to the product, as well as given in the annexed operational documents. May be applied as a single sign of products on the market states - members of the Customs Union only on the packaging and the instruction in the annexed operational documents, if it cannot be applied directly to the Gas-using equipment.

3. Single sign of products on the market states - members of the Customs Union is applied to the product in any way, providing crisp and clear image for the life of gas-using equipment.
4. Single sign marking of products on the market states - members of the Customs Union is to launch gas-using equipment in circulation in the market.
5. Gas-using equipment marked with a single sign of products on the market states - members of the Customs Union at its meeting all the technical regulations of the Customs Union, applicable to him and providing for the application of a single sign of products on the market states - members of the Customs Union.

#### **Article 8. Protection clause**

1. State - members of the Customs Union shall take all measures to limit, prohibition of issue gas-using equipment in the common customs territory of the Customs Union, and withdrawal from the market of gas-using equipment that does not meet these technical regulations.

**LIST gas-using equipment, in relation to the requirements of technical regulations  
Customs union «On safety devices, operating on fuel gas»**

Type (type)	Form of conformity
<b>Gas-using equipment designed for cooking, heating and hot water</b>	
Heating devices for household gas (heating units, and combined with the water system, heaters, fireplaces, stoves, air conditioners with integrated gas burner)	Certification
Gas household appliances for cooking and heating food (plates, panel cookers, brass cabinets, grills, cookers, having at least one gas burner)	Certification
Instantaneous gas water heating devices	Certification
Apparatuses capacitive gas water heaters	Certification
Plates and Tagan Portable gas and tourism	Declaration of Conformity
Gas household lamps	Declaration of Conformity
Gas burners household infrared devices for domestic gas-burning vehicles	Declaration of Conformity
Gas Boilers (up to 100 kW)	Certification
Gas Boilers (100 kW)	Certification
Thermal gas equipment for catering and food units (boilers cooker stationary, kitchen stoves, vehicles and cooker roasting, frying tipping, grills, fryers, equipment for heating and boiling liquids, steam tables for the first and second courses)	Certification
Gas burners, industrial special purpose (heating "light" infrared radiation)	Certification
Radiant heaters gas closed (emitters "dark")	Certification
Heaters Gas Industry (recuperative and mixing), including with block heaters blowing burners, air conditioners with integrated gas burner	Certification
Gas heat generators for livestock buildings	Certification
Gas brooders for poultry	Declaration of Conformity
<b>Block automatic burner</b>	
Gas burners, industrial block	Certification
Dual fuel burners, industrial block	Certification
<b>Devices designed for installation in equipment</b>	
Gas pressure regulators, operating without an external source of energy	Certification
Regulators (reducers) for gas cylinders	Certification
Instrumentation and automation for gas burners and appliances (blocks and panels for automatic ignition)	Declaration of Conformity
Gas-regulating valves and shut-off safety (automatic shut-off valves, pressure regulators, thermoelectric flame supervision devices, valves, thermostats, mechanical)	Declaration of Conformity
Flexible connection for gas burners and appliances	Certification

## Requirements to operating documentation

1. The package gas-using equipment should include the following service documents: instruction about installation, maintenance and repair of gas-using equipment and guidance on its using ([operating manual](#)). This documents executed in Russian and in the state (s) language (s) of the State - a member Customs union with the appropriate requirements in the law (s) of the state (in) - Member (s) of the Customs Union.

Operational documents are executed on paper. These can be applied to a set of operational documents electronically.

Allowed to combine these documents if necessary.

2. The instruction about installation, maintenance and repair of gas-using equipment must contain the following information:

- a) a general description of the gas-using equipment and the conduct of its work;
- b) the rated output and (or) the nominal heat output gas-using equipment in) types and pressure ratings used gases
- c) the procedure of transfer gas-using equipment from one type of gas to another,
- d) requirements for ventilation, which established Gas-using equipment to support combustion, excluding accumulation of dangerous unburned gas and creating conditions for removing the products of combustion;
- e) requirements for gas burners and block gas-using equipment is designed for these burners, and if necessary, a list of combinations recommended by the manufacturer to ensure proper assembly and commissioning, ensure that the stated performance and safety of the collected sample gas-using equipment during operation;
- f) requirements for the chemical composition of water heating equipment (in the case where water is cooled),
- g) rated voltage electrical network for gas-using equipment with electric power automation systems;
- h) the types and frequency of maintenance that needs to be in the process of Gas-using equipment its operation,
- i) the characteristic gas-using equipment malfunction and troubleshooting; l) requirements for air exchange in the room where not install gas-using heating and water heating equipment, is not connected to the chimney and not equipped with an exhaust device for exhaust gas,
- j) the name and address of manufacturer (the person performing the functions of the foreign manufacturer) information to contact them;
- k) the month and year of manufacture gas-using equipment and (or) information on the site of application, and how to determine the year of manufacture.

3. [Operating manual](#) gas-using equipment must contain all information needed for its safety operation during the term of service, and telling the user to limit his opportunities.

4. [The operating manual](#) should include guidelines for the safety disposal of gas-using equipment.

5. Fittings designed for mounting gas-using equipment and devices integrated in Gas-using equipment should be supplied with instruction for installation, maintenance and repair of gas-using equipment.

## Requirements for labeling and packaging

1. Each unit of gas-using equipment into circulation in the market states - members of the Customs Union must be legible, easily readable markings installed in an accessible for inspection without disassembly using the tool location to persist for the life of gas-using equipment.
2. The information contained in the labeling gas-using equipment is set out in Russian and in the state (s) language (s) of the State - a member of the Customs Union, with the appropriate requirements of the law (s) of the state (in) - Member (s) of the Customs Union.
3. Marking shall include the following information:
  - a) name and (or) the trademark of the manufacturer, the name of the country where the product is made,
  - b) the model (type) equipment
  - c) the serial number (batch number),
  - d) the date of manufacture of the equipment (month, year),
  - e) the rated output capacity and (or) the nominal heat output gas-using equipment
  - f) the type and nominal pressure of the gas used,
  - g) voltage, frequency electric current and power demand (for gas-using equipment, connected to the mains).
4. Warning labels applied on Gas-using equipment must inform the user:
  - a) on the risk of explosion, fire, carbon monoxide poisoning, the harmful effects of thermal, electric shock (in terms of gas-using equipment to be connected to the power supply)
  - b) the need to install gas-using equipment in a well-ventilated area (in terms of gas-using equipment from the exhaust pipe into the room).
5. All mounting holes pipelines should be closed the shipping plugs.
6. Each unit of gas-using equipment must be packed so as to ensure its safety during storage and transportation.
7. Packaging is to provide the conditions of transportation, loading and unloading of gas-using equipment.
8. On the outside of the package must be marked.
9. Labeling should be clear and highly visible, marked with indelible ink or water-repellent, contrasting with the color of the packaging.
10. Markings on the package should contain the following information:
  - a) the model (type) equipment
  - b) the type and nominal pressure of the gas used,
  - c) handling marks;
  - d) name and (or) the trademark of the manufacturer, the name of the country where the product is made.
11. Handling marks must be made on different parts of the package.
12. Allowed to mark only the packaging, labeling, if not applied directly to the Gas-using equipment due to the design.