

Technical Requirement for Environmental Products

The Certificable Technical Requirement for Environmental Labelling Products

Energy-saving and low-discharge Gas Ranges

HJBZ 19—1997

1 Scope

This technical requirement specifies definition, basic requirements, technical contents and test method for environmental labelling products of energy-saving and low-discharge gas ranges.

This technical requirement shall apply to energy-saving and low-discharge gas ranges used in urban, which include:

- A. Ranges whose nominal heat flux of a single burner is less than 5.23kW (4500kcal/h).
- B. oven and roaster whose nominal heat flux is less than 5.82kW (5000kcal/h).
- C. oven ranges whose nominal heat flux meet what specified in a and b.

D. Gas rice cooker whose nominal heat flux is less than 4.19kW (3600kcal/h) and maximum rice stewing volume each time is <4L.

This standard may be consulted for energy-saving and low-discharge gas ranges which used in non-urban region.

2 Standards cited

Provisions in the following standards are cited in this technical requirement, and therefore form the provisions in this standard. They have the same effectiveness as the technical requirement itself.

GB 16410—1996 Household Gas Ranges

GB/T 16411—1996 Universal test method for gas burning appliances for domestic use

ISO 7996—1985 Ambient air - Determination of the mass concentration of nitrogen oxides- Chemiluminescence method

In case of the criteria above are revised, the latest version should be applied.

3 Basic requirements

3.1 Product performance should conform with requirement in GB 16410—1996.

3.2 Pollutant emission of the company should be obliged to conform with pollutant emission standards nationally or locally.

4 Technical contents

4.1 For using various gas ranges, concentration of NO_x (a=1) in dry flue gas in nominal heat load condition should meet the requirement of the table below.

Concentration	Gas	Manmade coal gas, natural gas	LPG
	NO _x (a=1)		≤60

4.2 For using various gas ranges, concentration of CO in dry flue gas in nominal heat load condition should not be higher than 300ppm.

4.3 Thermal efficiency of products should not be less than 60%.

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5 Test

5.1 Sampling method for CO specified in GB/T 16411 - 1996 should be adopted to sample NO_x in fume of the product, and measuring method in ISO 7996 should be used to determine the concentration of NO_x.

5.2 Concentration of CO in fume of the product should be measured by method specified by GN/T 16411 - 1996.

5.3 Thermal efficiency of products should be measured by the method described by GB 16410 - 1996.

Annotations:

This technical requirement has been prepared by Department of Science, Technology and Standards of State Environment Protection Administration.

The State Environment Protection Administration keeps the right of interpretation for this technical requirement.