

ICS 91.140.10
CCS Q 83



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

GB 29039-2012

Steel heating radiator

钢制采暖散热器

(English Translation)

Issued on: December 31, 2012

Implemented on: November 1, 2013

Issued by: Standardization Administration of China

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9.1 Packaging

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Foreword

Article 5.1 and Article 5.2 of the standard is mandatory, the rest are recommended.

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

The standard proposed by the People's Republic of China Ministry of Housing and Urban-Rural Development.

This standard by the National HVAC and purification Standardization Technical Committee (SAC/TC143) equipment.

This standard drafting unit. China Academy of Building Research.

Participated in the drafting of this standard. China Construction Metal Structure Association Heating Radiator Committee, the State Quality Supervision and Inspection of air-conditioning equipment Heart, Harbin Institute of Technology, the State Building Materials Industry Building Hardware Plumbing Product Quality Supervision and Testing Center, Beijing Florence cooling Co., Ltd, Nuoro (China) Co., Ltd., Lanzhou Longxing Woer Kai heating equipment Manufacturing Co., Rettig (China) Co., Ltd., Tangshan Chase Metal Products Co., AFG (Shanghai) Management Co., Ltd., Tianjin Rui new Radiator Co., Tianjin Mading Kang Hua Stainless Steel Products Co., Ltd., Beijing clover radiator plant, the Beijing New Building Materials Co., Ltd., Shandong Bangtai Radiator Co., Ltd., Beijing Wanlian Hengtong Technology Co., Ltd., Hebei warm Spring St. Radiator Co., Ltd., Henan Qianfeng Radiator Co., Limited Qingdao Ciga building equipment the company, Qingdao Huatai Radiator Co., Townsend (China) HVAC Equipment Co., Ltd., Shenyang Kyrgyzstan water radiator factory, Tianjin Hua Chen cooling Co., Ltd, Zhengzhou City Vaasa Qi Radiator.

1 Scope

This standard specifies the classification and steel type heating radiator, requirements, test methods, inspection rules, flags, and instructions for use of qualified Cards, packaging, transportation and storage.

This standard applies to industrial and civil buildings, does not exceed 95 °C hot water or saturated steam is not higher than the heat medium is 0.3MPa Steel heating radiator (hereinafter referred to as the radiator).

2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper Pieces. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packaging Pictorial signs GB/T 699 high-carbon steel GB/T 700 carbon steel GB/T 985.1 gas welding, arc welding, gas welding and high-energy beam welding groove Recommended GB/T 1732 Film impact resistance assay GB/T 1733 film water resistance assay GB/T 7307 55 ° non-sealing pipe thread GB/T 9286-1998 Paints and varnishes cut test GB/T 9969 General Industrial Product Manual GB/T 12467.3 metallic welding material quality requirements - Part 3. General Quality Requirements GB/T 13237 high-carbon structural steel sheets and strips GB/T 13754 Determination of the amount of heat the heating radiator GB/T 19866 welding procedure and the general principles of assessment HG/T 2006 thermosetting powder coating JB/T 9062-1999 heating ventilation and air conditioning conditions Coating Technology

3 Terms and Definitions

The following terms and definitions apply to this document.

Standard heat dissipation standard thermal output Heat radiation amount in the radiator GB/T 13754 standard test conditions specified obtained.

Metal heat intensity heat emission per weight per excess temperature of radiator in the standard test conditions radiator units through heat output per unit mass than the temperature of the metal.

The same side of the inlet and outlet center distance distance between inlet and outlet Ipsilateral radiator inlet and a distance between the nozzle.

Thin-walled steel radiator flow passage steel radiator with thin wall of flow vessel Radiator finished steel radiator flow passage is less than the minimum thickness of 1.8mm.

Thick steel radiator flow passage steel radiator with thick wall of flow vessel Finished radiator flow passage is equal to or greater than the minimum wall thickness of 1.8mm steel radiator.

4.1 Classification

4.1.1

The form of the structure is divided Into steel plate radiator, columnar steel, steel radiators, convector steel and steel bathroom radiator, symbols it is represented by B, Z, G, C, W and the like.

4.1.2 According to the same side of the inlet and outlet center distance divided

Ipsilateral center distance of the inlet and outlet of the main parameters of the series, the inlet and outlet on the same side with the symbol represents the center distance.

4.1.3 Divided by the radiator flow channel thickness

Steel into a thin-walled flow passage and the radiator flow passage thick steel radiator, symbol represented by a minimum wall thickness of finished runner.

4.2 Model

Steel

structure type

The same side of the inlet and outlet center distance, mm - -Minimum wall thickness of finished radiator flow passage, mm / -Working pressure, MPa Note. the manufacturer can add other necessary information on the basis of the contents of the marker, such as size, number of sheets in combination, the amount of heat dissipation, the interface diameter, etc., in the structure in the form of heat sink may be added to represent the characteristic parameter, such as a plate type dual convection plate B22 represents a double sheet, Z3, G3 represents three columns, C2/20 represent two DN20 pipe.

Model example.

Ipsilateral export center distance of 500mm, a radiator flow passage finished minimum thickness 1.5mm, a working pressure of 0.8MPa steel three columnar radiator, which is standard Referred to as. GZ3-500-1.5/0.8.

5.1.1 Operating Pressure

Radiator minimum operating pressure should be greater than or equal to 0.4MPa, and shall meet the requirements of heating system operating pressure.

5.1.2 Standard amount of heat

Standard heat radiation amount of the radiator manufacturers express greater than or equal to 95% of the standard amount of heat.

5.1.3 Minimum metal heat intensity

The minimum strength metal heat radiator should meet the requirements of Table 1.

Table 1 minimum metal heat intensity in units of W/(kg · K)

Radiator Category