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

JG/T 221-2016

Replacing JG 221-2007

**Copper tube convector
(English Translation)**

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Foreword

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

This standard is JG 221-2007 "copper tube convection radiator" revision, compared with JG 221-2007 main technical changes are as follows.

- Increased threaded nozzle material;
- Increasing the grille ventilation requirements;
- Modify the outer diameter and wall thickness of brass;
- Modify the aluminum string thickness;
- Modify the thickness of the steel plate;
- Modify the thread quality requirements;
- Modify the coating adhesion determination.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Environment and Energy Standardization Technical Committee.

This standard was drafted. China Building Metal Structure Association, Tsinghua University, the International Copper Association (China), China Academy of Building Research,

National Radiator Quality Supervision and Inspection Center, the National Building Materials Industry Building Hardware Plumbing Product Quality Supervision and Testing Center, Fred (Zhengzhou) Industrial Co., Ltd., Chun Chun Ji Heater Co., Ltd., Guangdong Sunflower HVAC Equipment Co., Ltd., Henan Ward New Century Energy Co., Ltd., Beijing Pai Jie HVAC Environmental Engineering Co., Ltd., Zhengzhou Sudiya Industrial Co., Ltd., Jiangsu Fortum radiator Co., Ltd., Harbin Maoershan radiator limited liability company, Shandong Zhongjia New Materials Co., Ltd.

1 Scope

This standard specifies the copper tube aluminum strip as the cooling element of the natural convection copper tube convection radiator (hereinafter referred to as "convector") terminology and Definitions, Classifications and Markings, Materials and Structures, Requirements, Test Methods, Inspection Rules, Marking, Instructions and Certificates, Packaging, Transport and Storage.

This standard applies to industrial and civil buildings to not higher than 95 °C and the water quality in line with the provisions of GB/T 29044-2012 in 4.5 hot Water convection for the heating medium.

2 Normative references

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

GB/T 191 Packaging - Pictorial signs GB/T 1732 film impact resistance assay GB/T 2828.1 Sampling procedures for inspection - Part 1. Batch inspection sampling plan by acceptance quality limit (AQL) GB/T 7306.1 55 ° sealing pipe threads - Part 1. Cylindrical and tapered male thread GB/T 8544 aluminum and aluminum alloy cold-rolled strip Tests for crosshatch of paints and varnishes - GB/T 9286-1998 GB/T 9969 Industrial Products Manual General GB/T 11618.1 brass fittings - Part 1. Brazed pipe fittings GB/T 13237 quality carbon structural steel cold-rolled steel sheet and strip Radiators for heating radiators - Determination of heat content GB/T 13754-2008 Seamless copper tubes for air conditioning and refrigeration equipment GB/T 17791-2007 Water quality of heating and air conditioning systems GB/T 29044-2012 Technical Specification for Welding and Brazing of HGJ223 Copper and Copper Alloy HG/T.2006 thermosetting powder coating

3 Terms and definitions

The following terms and definitions apply to this document.

Unit convector Independently installed convector with single housing.

Continuous convector successiveconvector Casing continuous convector.

Grill ventilation grilleventilationrate the ratio of the maximum venting area of the air outlet grille to the total air-passing area of the convector housing (width B x length L).