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CCS J73



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

GB/T 18429-2018

Replacing GB/T 18429-2001

Hermetic scroll refrigerant compressor

全封闭涡旋式制冷剂压缩机

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Foreword

This standard was drafted according to the rules given in GB/T 1.1-2009. This standard replaces GB/T 18429-2001 "Fully enclosed scroll refrigeration compressor", compared with GB/T 18429-2001 main technologies The content changes as follows:

- Modified the name of the standard and scope of application (see Chapter 1, Chapter 1 of the.2001 edition);
- Modify the nominal conditions and performance tolerances of the compressor (see 4.2, 5.3.3, 4.1, 5.2.1 of the.2001 version);
- Increased compressor volume flow requirements and test methods (see 5.3.2, 6.2.2);
- Increased the evaluation of heating capacity and heating performance coefficient of the compressor (see 5.3.3, 6.2.3);
- Increased test evaluation of speed-controlled compressors (see Chapter 6);
- Increased safety requirements and marking requirements for flammable refrigerants (see 5.2, 8.1.3, 8.2.2);
- Increased airtight inspection requirements and test methods (see 5.3.1, 6.2.1);
- Modify the compressor internal impurity content, residual moisture content and accelerated life requirements and test methods (see 5.3.4, 5.3.5, 5.3.10, 6.2.4, 6.2.5, 6.2.10, 5.2.8, 5.2.7, 5.2.10, 6.10, 6.9, 6.12) of the.2001 edition;
- Modify the relevant provisions of the inspection project (see Chapter 7,.2001 version of Chapter 7). This standard is proposed by China Machinery Industry Federation. This standard is under the jurisdiction of the National Refrigeration Air Conditioning Equipment Standardization Technical Committee (SAC/TC238). This standard is mainly drafted by: Hefei General Machinery Research Institute, Panasonic Compressor (Dalian) Co., Ltd., Emerson Environmental Optimization Technology (Su (State) Co., Ltd., Shanghai Jialiang Songzhi Automotive Air Conditioning Co., Ltd., Hefei General Environment Control

Technology Co., Ltd. Participated in the drafting of this standard. Danfoss (Tianjin) Co., Ltd., Zhuhai Lingda Compressor Co., Ltd., Suzhou Yinghuate Vortex Technology Co., Ltd. Limited company, Xi'an Dajin Qingan Compressor Co., Ltd., Hefei General Mechanical and Electrical Products Inspection Institute Co., Ltd. Drafters of this standard. Zhang Mingsheng, Zhang Xiuping, Zhou Yingtao, Liu Qiang, Jiang Shou, Wang Yijin, Qian Kun, Xie Lichang, Wen Maohua, Jia Weiqiang, Jia Jia. The previous versions of the standards replaced by this standard are.

--- GB/T 18429-2001. Totally enclosed scroll type refrigerant compressor

1 Scope

GB/T 18429-2018 is the Chinese national standard on hermetic scroll refrigerant compressor, in the field of energy and heat transfer engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 14 May 2018 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2018. Classification: ICS 27.200, CCS J73. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the terms and definitions, basic parameters, and technical requirements for a totally enclosed scroll-type refrigerant compressor (hereinafter referred to as "compressor"). Requirements, test methods, inspection rules and signs, packaging, transportation and storage. This standard applies to totally enclosed scroll type refrigerant compressors. This standard does not apply to compressors with refrigerant R744.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 packaging, storage and transportation logo

GB 4706.17 Safety of household and similar electrical appliances Particular requirements for motor-compressors

GB 4706.32-2012 Particular requirements for safety heat pumps, air conditioners and dehumidifiers for household and similar electrical appliances

GB/T 5773 Volumetric Refrigerant Compressor Performance Test Method

GB/T 6388 Shipping Package Receipt and Delivery Symbol

GB/T 9237 Refrigeration System and Heat Pump Safety and Environmental Requirements

GB/T 13306 signage

GB/T 19410 screw refrigeration compressor

GB/T 34619 volumetric refrigerant compressor volume flow test method

JB/T 4330-1999 Determination of noise in refrigeration and air-conditioning equipment

JB/T 7249 Refrigeration Equipment Terms

3 Terms and Definitions

The following terms and definitions as defined in JB/T 7249 and GB/T 5773 apply to this document.

3.1 Hermetic scroll refrigerant compressor A compressible volume of refrigerant pressure is formed by a fixed and an eccentric revolving translational motion involute or other profile scroll scroll The compressor, compression mechanism, and motor are housed in a refrigerant compressor that is welded or brazed to death.

4 Basic parameters

4.1 Design and Conditions of Use Compressor design and use conditions are shown in Table 1.