

ICS 23.120

CCS P48



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

GB/T 14296-2008

Replacing GB/T 14296-1993

Air cooling and air heating coils

空气冷却器与空气加热器

Issued on: November 4, 2008

Implemented on: June 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions 4 classification and marking 2 5 requires	3
6 Test Method	4
7 Inspection rules 6 8 signs, packaging, transportation and storage	7

Foreword

This standard replaces GB/T 14296-1993 "air coolers and air heaters." This standard and GB/T 14296-1993 compared to the main changes are as follows:

- Increasing the scope of an ethylene glycol solution;
- Delete references to standard GB/T 2828 and GB/T 2829, consolidated GB/T 9119.6, GB/T 9119.7, GB/T 9119.8 The new award criteria GB/T 9119;
- Revised definitions similar to air heat exchanger;
- Test method to increase the range of experimental parameters table, the rating increased the glycol solution, different water temperature requirements;
- Revised inspection rules. The standard proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This standard by the National HVAC and purification equipment Standardization Technical Committee. This standard is drafted by: China Academy of Building Research. Participated in the drafting of this standard. Shanghai Sinko Air Conditioning Equipment Co., Ltd. artificial environment Tongfang Co., Ltd., Wuxi York Asia RESEARCH Development Center, Trane air conditioning systems (Jiangsu) Co., Ltd., Jiangsu Aeolus air conditioning Group Co., Ltd., Guangdong Province, Jeroen air conditioning equipment company, large Even Iceberg Air Conditioning Equipment Co., Ltd. Guangdong Shenling Air Conditioning Equipment Co., Ltd., Guangdong Midea Commercial Air Conditioning Equipment Co., Ltd., Shandong Europe Kai air Tone Technology Co., Ltd. Chengdu Five Bull, Yuyao JF Air Conditioning Equipment Co., Ltd. Beijing North air conditioner, etc. unit. The main drafters of this standard. Cao Yang, WORKER, money Ronghua, Wang Qingping, Wang Li, Zhang Vega, Yao Rusheng, Panzhan Hua, Lu Hui, Geng Kai, Wang Kun, Li Jian, Zhang Jingfei, Francis Pang, Qiu Mingjiang. This standard replaces the previous standard release version.
- GB/T 14296-1993. Air coolers and air heaters

1 Scope

GB/T 14296-2008 is the Chinese national standard on air cooling and air heating coils, in the field of fluid systems and general-purpose components. 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 4 November 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2009.

Classification: ICS 23.120, CCS P48. 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 air coolers and air heaters (referred to air heat exchanger) terms and definitions, classifications and marks, requirements, test Methods, inspection rules, marking, packaging, transportation and storage. This standard applies to water, glycol solution, steam as the medium for cooling or heating the air forced flow heat exchanger.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1047 pipe element DN (nominal size) of the definition and selection

GB/T 1804 General tolerances together without individual tolerances of linear and angular dimensions tolerance

GB/T 1958 Geometrical Product Specifications (GPS) shape and position tolerance testing requirements Within the first part of the cylindrical and conical outer thread thread

GB/T 7306.1 55 ° sealing pipe thread In Part 2 conical

GB/T 7306.2 55 ° sealing pipe thread thread and taper external thread

GB/T 9119 flat panel projecting flat welded steel pipe flanges

GB/T 16803 heating, ventilation, air conditioning, cleaning terminology JG/T 21 air coolers and air heater performance test method

3 Terms and Definitions

GB/T 16803 and established the following terms and definitions apply to this standard.

3.1 With cold water, glycol solutions and other wet and indirect cooling air dehumidification surface heat exchange equipment.

3.2 Steam, hot water, glycol solution indirect heating surface air heat exchange equipment.

3.3 In addition to air cooler total rated thermal test conditions, ie air sensible heat and latent heat of and, in W or kW.

3.4 Air heat exchanger in the total nominal test conditions sensible heat plus heat, in W or kW.

3.5 Air heat exchanger rated test conditions, the air flowing through the air heat exchanger is referred to the rated pressure loss of air resistance, in units of Pa.

3.6 Air heat exchanger rated test conditions, water or glycol solution through the air heat exchanger is referred to the rated pressure fluid resistance loss, single Bit kPa.