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Unit coolers for refrigeration

制冷用空气冷却器

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Foreword

Annex A of this Standard is Normative annex, Annex B is informative annex.

This Standard is proposed by China Machinery Industry Federation.

This Standard is under the jurisdiction of National Technical Committee (SAC/TC 238) on Refrigeratory Equipment of Standardization Administration of China.

The responsible drafting organizations are Hefei General Machinery Research Institute, General Machinery & Electrical Products Inspection Institute, Yantai Moon Co., Ltd, Dalian Refrigeration Co., Ltd, Zhejiang Gaoxiang Industry & Trade Co., Ltd, Dalian Yiside Refrigeration Equipment Co., Ltd, Hefei General Environment Control Technology Co., Ltd.

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This Standard is interpreted by National Technical Committee on Refrigeratory Equipment of Standardization Administration of China

Unit coolers for refrigeration

1 Scope

This standard specifies the terms and definitions, types and basic parameters, requirements, test methods, inspection rules, marking, packaging, transportation and storage of the drill for unit coolers for refrigeration (hereinafter refers as “coolers”).

This standard applies to the cooler used in objects in cooling object cold storage room, frozen object cold storage room and freezing room. Cooler for other purposes can be for information and guidance.

This standard applies to the cooler with R134a, R22, R404A and ammonia refrigerant as a medium and the cooler with water, ethylene glycol and other refrigerating mediums as the medium, and the cooler with other refrigerants as the medium can refer to the implementation.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2008, ISO 780: 1997, MOD)

GB/T 5773-2004 The method of performance test for positive displacement refrigerant compressors (ISO 917: 1989, MOD)

GB/T 6388 Transport package shipping mark

GB/T 10870 The methods of performance test for positive displacement & centrifugal water-chilling units and heat pump

GB/T 13306 Plates

JB/T 2379 Metal Tube Electric Heating Element

JB/T 4088 Daily-use metallic tube electric heating elements

JB/T 4330-1999 Determination of Noise Emitted by Refrigerating and Air Condition

JB/T 4750 Pressure vessels for refrigerant equipment

- JB/T 7249 Terminology of refrigeration equipment
- JB/T 9058 Measuring method of refrigerating equipment cleanliness
- JB/T 10562 Technical specification for general purposes axial fans
- JB/T 10563 Technical specification for general purposes centrifugal fans

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions and those established in JB/T7249 apply.

3.1

Unit coolers for refrigeration

Refrigerant or refrigerating medium flow in the pipe, the heat exchanger of airflow is outside the cooling pipe.

3.2

Ammonia air-cooler

Air cooler that takes ammonia as refrigerant

3.3

Halogenated hydrocarbon and hydrocarbon air-cooler

Air cooler that takes halohydrocarbon and hydrocarbons as refrigerant

4 Types and basic parameters

4.1 Types

4.1.1 According to the installation type, it can be divided into:

- Flooring type
- Ceiling type

4.1.2 According to the usage, it can be divided into:

- Cooling material using in springhouse
- Congelation using in springhouse
- Using in freezing room

4.1.3 According to cooling medium used, it can be divided into:

- Refrigerant type
- Secondary refrigerant type

4.1.4 According to the refrigeration fluid supplying methods, it can be divided into:

- Direct evaporation type
- Pump feed liquid type

4.1.5 According to the defrosting mode, it can be divided into:

- Defrosting using water type
- Defrosting using electric type
- Hot gas defrosting type:
- Mixing defrosting using hot gas and water type

4.2 Type

The model of Cooler shall be compiled by the provisions of Annex B.

4.3 Basic parameters

4.3.1 Nominal cooling capacity of the cooler shall be determined according to nominal

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