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**Ducted air -- Conditioning (heat pump) units
(English Translation)**

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Foreword

This Standard was formulated for the first time.

This Standard is not equivalent to ISO 13253.1995 Ducted air-conditions and air-to-air Heat pumps - Testing and rating for performance.

In this Standard, Annex A is informative and Annex B is normative.

This Standard shall be under the jurisdiction of National standardization technical committee on refrigeration equipment.

The responsible drafting organizations of this Standard. Shenzhen McQuay Air Conditioning Co., Ltd. and Hefei General Machinery Research Institute.

The participating drafting organization of this Standard. Trane Air Conditioner Co., Ltd.

The chief drafting staffs of this Standard. Wang Yibin, Wang Xiangkui, Hu Jixun and Zhang Weijia.

Ducted air-conditioning (heat pump) units

1 Scope

This Standard specifies the definition, type and basic parameters, technical requirements, test, inspection rules, mark, packaging, transportation, storage and others of ducted air-

conditioning (heat pump) units.

This Standard applies to ducted air-conditioning (heat pump) units.

2 Normative references

The articles contained in the following documents have become part of this document when they are quoted herein. For the dated documents so quoted, all the subsequent modifications (including all corrections) or revisions made thereafter do not apply to this standard. However, the parties who reach an agreement according to this standard are encouraged to study whether the latest versions of these documents may be used. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 191-2000 Packaging - Pictorial markings for handling of goods

GB/T 2423.17-1993 Basic environmental testing procedures for electric and electronic products - Test Ka. Salt mist (eqv IEC 68-2-3.1981)

GB/T 2828-1987 Sampling procedures and tables for lot-by-lot inspection by attributes (apply to inspection of successive lots or batches)

GB/T 3785-1983 Electric, sonic properties and measuring methods for sound level meters

GB 4208-1993 Degrees of protection provided by enclosure (IP code)

GB 4706.1-1998 Safety of household and similar electrical appliances - Part 1.General requirements

GB 4706.32-1996 Safety of household and similar electrical appliances - Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers

GB/T 4798.2-1996 Environmental conditions existing in the application of electric and electronic products - Transportation

GB/T 5226.1-1996 Electrical equipment of industrial machines - Part 1.general requirements

GB/T 6388-1986 Transport package shipping mark

GB 9237-2001 Mechanical refrigerating systems used for cooling and heating - Safety

requirements

GB/T 13306-1991 Plates

GB/T 17758-1999 Unitary air conditioners

JB/T 7249- 1994 Terminology of refrigeration equipment

JB/T 9066-1999 Cabinet type fan coil unit

3 Definition

For the purpose of this Standard, the following definitions given in JB/T 7249-1994 shall apply.

3.1

Ducted air-conditioning (heat pump) units

Equipment that provides centralized processed air to confined space, room or area through ducts. It mainly includes refrigeration system, air circulation and purification device and also including heating equipment, humidification equipment and ventilation equipment. it is hereinafter referred to as air conditioner.

3.2

Auxiliary electric heater for heating

Electric heater that is used for heating with heat pump (including post-installation electric heaters).

3.3

Heat water coil

Equipment of which the air, guided by fan, flows through and gets heated by the coil-pipe in which the external heat-water flows through.

3.4

Heating equipment with electric heater

5.1.7 The action of magnetic exchange valves of heat pump air conditioner shall be

sensitive and reliable, and be able to ensure the normal operation of air conditioners.

5.1.8 The thermal-protective coating of air conditioners shall have good heat insulation

performance, and shall be non-toxic, odor-free and has self-extinguishing function. It shall have no condensation phenomena on the surface in normal operation.

5.1.9 The parts of air conditioner refrigerating system shall be able to ensure the normal

operation of the whole unit without degradation under the affection of refrigerants, lubricants and their mixture.

5.1.10 The compressor of air conditioners shall be equipped with measures against

vibration or be equipped with anti-vibration spring washers when being fixed.

5.1.11 Salt-frog resistance of electroplated parts

After the test to electroplated parts is done according to the method in 7.3.22, each rust spot in the electroplated layer shall not exceed 1 mm²; the electroplated layer of each 100 cm² shall have at most 2 rust spot and rust stain; when the area is less than 100 cm², there shall not be rust spot and rust stain.

5.1.12 Coating adhesion of painted parts

After the test is done according to the method in 7.3.23, the number of shedding of paint film shall not exceed 15% of the total number.

5.1.13 All parts and materials of air conditioners shall comply with relevant provisions of

their standards respectively, meet the requirements of use performance and ensure safety.

5.1.14 The electrical systems of air conditioners shall be equipped with overload protection,

vacant phase protection (three-phase power) to their motors. When the nominal refrigerating capacity of air conditioners is larger than 4500 W, the refrigerating system shall be equipped with necessary protection functions or devices for high voltage, low