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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1769-2019

Rules of Metrology Testing for Energy Efficiency of Unitary Air Conditioners

单元式空气调节机能源效率计量检测规则

(English Translation)

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Introduction

In order to standardize the energy efficiency measurement and testing of unitary air conditioners that implement energy efficiency label management, according to According to the requirements of JJF 1261.1-2017 "Energy Efficiency Measurement and Testing Rules for Energy-using Products", this specification is formulated.

This specification is released for the first time.

Energy efficiency of unitary air conditioners Measurement and detection rules

1 Scope

This specification specifies unit air conditioning with a nominal cooling capacity greater than 7100W and a motor-driven compressor Energy efficiency measurement requirements and measurement of air-conditioning units, ducted air supply and rooftop air-conditioning units (hereinafter referred to as "air-conditioners") Contents such as testing procedures, metrological testing methods, evaluation criteria for metrological testing results, and testing reports.

This specification applies to the energy efficiency measurement supervision and testing of air conditioners, and commissioned testing can refer to this specification. Production and

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Units selling air conditioners can also conduct inspections with reference to this specification.

The energy efficiency measurement and detection method for air conditioners specified in this code is the air enthalpy difference method.

This specification does not apply to multi-unit air conditioner (heat pump) units and inverter air conditioners.

The air conditioner to be tested should be a product qualified by the manufacturer's self-inspection, or a product imported and sold by the seller.

2 Reference documents this specification refers to the following documents.

JJF 1261.1-2017 Energy efficiency measurement and testing rules for energy-using products GB/T 2829-2002 Periodic Inspection Attribute Sampling Procedure and Table (Applicable to the Inspection of Process Stability) GB/T 17758 Unit type air conditioner GB/T 18836 ducted air-conditioning (heat pump) unit GB 19576-2004 Unitary air conditioner energy efficiency limit value and energy efficiency grade JB/T 8702 rooftop air conditioning unit for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification.

3 Terms and units of measurement the following terms and measurement units apply to this specification.

3.1 Nominal cooling capacity Under the specified refrigeration capacity test conditions, the air conditioner is removed from the enclosed space, room or area per unit time the total amount of heat, the unit of measurement is W.

3.2 Input power powerinput Under the specified refrigeration capacity test conditions, the total power consumed by the air conditioner is measured in W.

3.3 Energy efficiency ratio Under the specified cooling capacity test conditions, the ratio of the cooling capacity of the air conditioner to the input power, and its value is W/W Said.

3.4 Minimum energy efficiency limit value minimumablevalueofenergyefficiency the minimum allowable value of the energy efficiency ratio of an air conditioner under nominal cooling conditions and specified conditions, referred to as the energy efficiency limit value.

3.5 Energy efficiency grade

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