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JJF

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

JJF 1261.16-2017

Replacing JJF 1261.16-2015

**Rules of Metrology Testing for Energy Efficiency of Electric
Storage Water Heaters
(English Translation)**

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Introduction

In order to standardize the energy efficiency measurement and inspection of water storage electric water heaters that implement energy efficiency labeling management, the requirements of JJF 1261.1-2017 Energy Efficiency Measurement and Testing Rules for Energy Products have been established.

This specification replaces JJF 1261.16-2015, compared with JJF 1261.16-2015, except for editorial changes.

The main changes are as follows.

--- The name of the specification is changed from "Regulations for measuring the energy efficiency of storage-type electric water heaters" to "Storage-type electric heaters Water energy efficiency measurement and detection rules";

--- "5.1 energy efficiency labeling" adds "energy efficiency information code" and "energy efficiency 'leader' information", etc.

Claim.

--- The original record and test report format were revised accordingly (Appendix C, Appendix D).

The previous versions of this specification were issued as follows.

---JJF 1261.16-2015.

Storage water heater energy efficiency Metering detection rules

1 Scope

This specification specifies the energy efficiency of domestic and similar water storage electric water heaters (hereinafter referred to as electric water heaters) Measurement requirements, test conditions, measurement and testing procedures, measurement and testing items and methods, and criteria for the assessment of measurement results Test report and other content.

This specification is applicable to the measurement and supervision of the energy efficiency of electric water heaters. Commissioned inspections can be conducted with reference to this specification. produce Units that sell electric water heater products can also be tested in accordance with this specification.

This specification applies only to domestic and similar water storage electric water heaters. This specification does not apply to auxiliary heating New energy water heaters, heat pump water heaters. The electric water heater that is tested should be a product that the manufacturer has passed its own inspection, or it is a commodity that the seller imports and sells.

2 references

This specification refers to the following documents.

JJF 1261.1-2017 Energy Product Energy Efficiency Measurement Inspection Rules GB/T 2829-2002 Periodic Inspection Count Sampling Procedures and Tables (Applicable to Inspection of Process Stability) GB/T 20289-2006 water storage type electric water heater GB 21519-2008 Energy-saving limit value and energy efficiency grade of water storage electric water heater for dated references, only dated editions apply to this specification; all undated references the latest version (including all amendments) applies to this specification.

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

3.1 Rated capacity Producer's specified volume in units of L.

3.2 24h inherent energy consumption standing loss per 24h the electric water heater is filled with water and energized, and after reaching a steady state, the undrained energy is lost every 24 hours.

The unit of measurement is kW·h.

3.3 24h inherent energy efficiency coefficient of standing loss per 24h the ratio of the inherent energy consumption of 24h to the reference value of the inherent energy consumption of 24h, dimension 1.

3.4 hot water output rate the ratio of actual hot water output to rated capacity under rated conditions, dimension 1 is expressed as a percentage.

3.5 Electric water heater energy efficiency limit value
minimum allowable values of energy efficiency for electrical storage water heaters Under the specified testing conditions, the maximum allowable 24h inherent energy consumption coefficient and hot water output the minimum rate.