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**Minimum allowable values of the energy efficiency and
energy efficiency grades for heat pump water heaters**

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Foreword

Clauses 4 and 5 of this standard are mandatory and the rest are recommended.

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the Department of Resource Conservation and Environmental Protection of the National Development and Reform Commission and the Department of Energy Conservation and Comprehensive Utilization of the Ministry of Industry and Information Technology.

This standard shall be under the jurisdiction of the National Energy Foundation and Management Standardization Technical Committee (SAC/TC 20).

Drafting organizations of this standard: China National Institute of Standardization, Zhuhai Gree Electric Co., Ltd., Guangdong Midea HVAC Equipment Co., Ltd., Guangdong Tongyi Electric Co., Ltd., Guangdong New Energy Technology Development Co., Ltd., Maanshan Bolang Thermal Energy Technology Co., Ltd., Ao Smith (China) Water Heater Co., Ltd., Jiangsu Tianshu Electric Co., Ltd., Beijing University of Technology, South China University of Technology, Weikai Testing Technology Co., Ltd., International Copper Association (China), Jinhua Yangfan Technology Co., Ltd., Zhejiang Zhongguang Electric Co., Ltd., Shanghai Hitachi Electric Co., Ltd., Guangzhou Deeneng Heat Source Equipment Co., Ltd., Zhejiang Zhengli Shengneng Technology Co., Ltd., Hangzhou Jinjiang Bailang New Energy Co., Ltd., Guangdong Changling Air Conditioner Manufacturing Co., Ltd., Shenzhen McQuay Air Conditioning Co., Ltd., Guangdong Ouke Air Conditioning Refrigeration Co., Ltd., China Household Electric Appliances Research Institute, Beijing Zhonglengtong Quality Certification Center Co., Ltd., Guangdong Zhigao Air Conditioning Refrigeration Equipment Division, Qingdao Haier Water Heater Co., Ltd., Ariston Thermal Products (China) Co., Ltd., Guangzhou Zhongyu Cold Gas Technology Development Co., Ltd.

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Minimum allowable values of the energy efficiency and energy efficiency grades for heat pump water heaters

1 Scope

This standard specifies the energy efficiency limit value, energy conservation evaluation value, energy efficiency rating, test method and inspection rules of heat pump water heaters.

This standard is applicable to water heater driven by electric motor, using vapor compression refrigeration cycle, using air as heat source and for the purposes of supplying hot water.

This standard does not apply to water source type heat pump water heaters.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB/T 21362-2008 Heat pump water heater for commercial & industrial and similar application

GB/T 23137-2008 Heat pump water heater for household and similar application

3 Terms and definitions

The terms and definitions as defined in GB/T 21362 and GB/T 23137 and the following terms and definitions apply to this document.

3.1

Minimum allowable values of energy efficiency

The minimum allowable value of the coefficient of performance when operating under nominal (rated) operating conditions.

3.2

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