

ICS 17.020
CCS A 50

JJF

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

JJF 1881-2020

**Rules of Metrology Testing for Energy Efficiency of
Water-source(ground-source) Heat Pumps
(English Translation)**

Issued on: November 26, 2020

Implemented on: May 26, 2021

Issued by: State Administration for Market Regulation

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Introduction

In order to standardize the energy efficiency measurement and testing work of water (ground) source heat pump units that implement energy efficiency label management, this specification is formulated in accordance with the requirements of JJF 1261.1-2017 "Energy Efficiency Measurement and Testing Rules for Energy-using Products":

This specification is released for the first time:

Energy efficiency of water (ground) source heat pump units Measurement and detection rules

1 Scope

This specification stipulates that household, industrial and commercial use and similar applications that use electromechanical compression systems and water as the cold (heat) source Energy efficiency measurement requirements, measurement testing procedures, measurement testing methods, measurement of water (ground) source heat pump units for purposes Test results evaluation criteria and test reports, etc:

This specification applies to the energy efficiency measurement supervision and inspection of water (ground) source heat pump units: For entrusted inspection, please refer to this specification get on: Units that produce and sell water (ground) source heat pump units can also conduct inspections with reference to this specification:

This specification does not apply to single cooling and single heating water (ground) source heat pump units:

The water (ground) source heat pump unit to be tested should be a product qualified by the

manufacturer's self-inspection, or imported by the seller, Products sold:

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 10870 Vapor compression cycle cold water (heat pump) unit performance test method GB/T 17758-2010 Unit type air conditioner GB/T 19409-2013 Water (ground) source heat pump unit GB 30721-2014 Water (ground) source heat pump unit energy efficiency limit value and energy efficiency grade 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 nominal cooling conditions and specified conditions, the refrigerant is removed from the object to be cooled or in the refrigerant in a unit of time the heat: The unit of measurement is kW or W:

3.2 Nominal cooling power consumption nominal cooling power consumption the input power of the unit during the nominal cooling capacity test: The unit of measurement is kW or W:

3.3 Nominal heating capacity Under the nominal heating conditions and specified conditions, the refrigerant is sent to the heated object or the refrigerant in a unit time Heat: The unit of measurement is kW or W:

3.4 Nominal heating power consumption the input power of the unit during the nominal heating capacity test: The unit of measurement is kW or W: