

ICS 97.040.40

QB

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

QB/T 1520-2023

**Household and similar electrical dishwasher
(English Translation)**

Issued on: July 28, 2023

Implemented on: February 1, 2024

Issued by: Ministry of Industry and Information Technology of the PRC

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1 Scope

This document specifies the safety, use performance, structure, materials and other requirements for household and similar electrical dishwashers; describes the corresponding test methods; specifies the inspection rules, marking, packaging, transportation, storage content; gives the classification and model naming for the convenience of technical specifications.

This document applies to the production, inspection, sale of household and similar electrical dishwashers with a single-phase rated voltage not exceeding 250 V and other appliances with a rated voltage not exceeding 480 V.

This document does not apply to the production, inspection, sale of dishwashers designed specifically for commercial use.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in the text. Among them, for dated references, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB/T 1019 General requirements for the package of household and similar electrical appliances

GB/T 1354-2018 Milled rice

GB/T 2423.17 Environmental testing for electric and electronic products - Part 2.

Test method - Test Ka. Salt mist

GB/T 2828.1 Sampling procedures for inspection by attributes - Part 1. Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

GB/T 2829 Sampling procedures and tables for periodic inspection by attributes (apply to inspection of process stability)

GB/T 4214.3 Household and similar electrical appliances - Test code for determination of airborne acoustical noise - Particular requirements for dishwashers

GB 4706.1 Household and similar electrical appliances - Safety - Part 1. General requirements

GB 4706.25 Household and similar electrical appliances - Safety - Particular requirements for dishwashers

GB 4789.2 National food safety standard - Microbiological examination of food.

Aerobic plate count

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Electrical dishwasher

An appliance driven by electrical energy that relies on chemical, mechanical, thermal energy to wash, rinse, dry tableware.

3.2 Rated capacity

ps

According to the requirements of Appendix B of GB 38383-2019, the number of standard tableware sets that a dishwasher can handle at one time, which shall be specified by the appliance instructions or the manufacturer.

3.3 Standard washing program

Except for special requirements of the test, the main program used for the performance test of this document, which shall be specified by the appliance instructions or the manufacturer.

4 Classification and model naming

The classification and model naming of dishwashers are shown in Appendix A.

5.1 Environmental conditions for use

Unless otherwise specified in the instructions for use of the appliance, the following environmental conditions for use shall be met.

5.2 General requirements

Unless otherwise specified, the dishwasher shall be powered by a single-phase AC power supply, which has a voltage of 220 V ~ 250 V and a frequency of 50 Hz ~ 60 Hz.

Before the cleaning performance test, the prototype shall be loaded with special consumables such as rinsing agent and salt in accordance with the instructions for use of the appliance or the method specified by the manufacturer; it shall be fully loaded with clean loads and tested for at least 3 complete standard washing programs.

5.3 Safety

The safety of the dishwasher shall comply with the requirements of GB 4706.1 and GB 4706.25.

5.4 Cleaning performance

The dishwasher shall be tested with a standard washing program; the cleaning index PC shall not be less than 1.12.

5.5 Drying performance

The dishwasher shall be tested with a standard washing program; the drying index PD shall not be less than 0.86.

5.6 Energy efficiency index

The dishwasher shall be tested with a standard washing program; the energy efficiency index EEI shall not be greater than 71.

5.7 Water efficiency index

The dishwasher is tested with a standard washing program; the water efficiency index WEI shall not be greater than 68.

5.12 Machine durability

The dishwasher shall be able to operate normally for no less than 1960 times, taking one complete "standard washing program" as one time.

5.13 Rinsing performance

The rinsing rate of the dishwasher shall not be less than 92%.

5.14 Material dissolution

The dissolution limit of parts and materials in contact with food shall comply with the requirements of the corresponding parts of GB 4806.

5.15 Clean & dry-keeping performance

For dishwashers with clean & dry-keeping function clearly stated in the instructions for use of the appliance, the operation time of the clean & dry-keeping function shall not be less than 72 hours; the clean & dry-keeping score shall not be less than 3 points.

The level of clean & dry-keeping performance of the dishwasher shall be evaluated according to Table 2.

5.16 Allowable deviation of stated value

The deviation -- BETWEEN the measured values of the cleaning index, drying index, energy efficiency index, water efficiency index of the dishwasher AND the values stated on the appliance body or in the instructions for use of the appliance (or the specified values of the grades indicated in Appendix B) -- shall not exceed the deviation shown in Table 3.

5.17 General structure

5.17.1

Fasteners and other parts in the dishwasher shall comply with the relevant national standards, industry standards or public enterprise standards; their wearing parts shall be easy to replace.

5.17.2

The inner wall of the dishwasher tank and the surface of the parts in contact with the washing shall be smooth; it shall not scratch or damage the tableware during normal use.

5.18.1 Metal parts

The surface of the metal parts of the dishwasher (except stainless steel) shall be treated with anti-corrosion, such as electroplating, painting, enamel or other effective anti-corrosion treatment.