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

GB/T 20292-2019

Replacing GB/T 20292-2006

**Methods for measuring the performance of tumble dryers for
household use**

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3.1 Terms and definitions

Foreword

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

This standard replaces GB/T 20292-2006 "Test Method for Performance of Household Tumble Dryers". This standard and GB/T 20292-2006

Compared to the main technical changes are as follows.

--- Added in Chapter 1 "Note. This standard also applies to tumble dryers for commercial use in apartments or self-service laundry rooms.

This document does not apply to tumble dryers for commercial laundry";

--- Chapter 2 added IEC 60335-2-11.2008, IEC 62301.2011 and other normative references;

--- Change the title of Chapter 3 to "terms and definitions, symbols" and add in 3.1. "test load", "single test", "series test

", "running", "running termination", "test load mass", "nominal test (load) mass", "water content", "initial moisture content",

"Final moisture content" and terms and definitions such as "shutdown mode" and "standby mode"; and subdivide "program" into "program termination" and

"Program time", subdivide "loop" into "cycle time", etc.;

--- Add new calculation symbols and descriptions in 3.2, such as "regression constant", "test load weighting and average life", "water density",

"Test load number", "power to be shut down", etc., and given in the form of a corresponding list;

--- Change Chapter 4 "Dimensions" to "Requirements" and divide them into "General Requirements", "Rated Capacity" and "Structural Size";

--- Change Chapter 5 "Rated Capacity" to "Test Conditions, Substances, Equipment and Instruments" and divide them into. 5.1 "General Requirements", 5.2 "Environmental Requirements"

Seeking, 5.3 "Test substances", 5.4 "equipment" and 5.5 "instruments and precision" five;

--- Replace Chapter 6 "General Conditions of Test" with "Test Preparation"; and divide into. 6.1 "General Requirements", 6.2 "Installing Tumble Dryers"

Machine", 6.3 "Preparation for series test", 6.4 "Preparation for formal test" and 6.5 "Preparation for test load";

--- Change Chapter 7 "Test Load" to "Performance Test---General Requirements";

--- Change Chapter 8 "Measurement and Accuracy" to "Performance Test"; and divide into 8.1 "Overview", 8.2 "Test Procedure for Performance Test",

8.3 "Measurement of water consumption, power consumption and program time", 8.4 "Condensation efficiency measurement", 8.5 "Dry uniformity measurement" and "Discharge volume"

measuring";

--- Change Chapter 9 "Performance Test" to "Performance Evaluation" and divide it into 9.1 "Overview"; 9.2 "Load Final Moisture Content", 9.3 "Power Consumption"

Correction value", 9.4 "water consumption correction value", 9.5 "program time correction value", 9.6 "condensation efficiency" and 9.7 "drying uniformity", etc.;

--- Replace Chapter 10 "Evaluation and Calculation" with. "Test Data Report";

--- Removed the original Chapter 11 "Experimental Report";

--- Add 4 appendices from the original standard to 8 new ones. The new appendices are.

Appendix A (Normative Appendix) "Reference Catalogue", Appendix C (Informative Appendix) "Flowchart", Appendix D (Normative Appendix) "Test

Report---data to be reported", Appendix E (normative appendix) "Steps for determining test load when no rated capacity is marked",

Appendix F (Normative Appendix) "Initial Moisture Estimation Method" and Appendix G (informative appendix) "Evaluation of Dryness Uniformity";

The original Appendix A (normative appendix) "Nominal and standard exhaust pipe for drum dryer test" is changed to Appendix B; Add Appendix H

(Informative Appendix) "Measurement of Exhaust Volume"; delete the original Appendix B (normative appendix) "Cotton Test Load", Appendix C (Regulatory Attachment)

Recorded "very dry method" and Appendix D (normative appendix) "preparation of water".

This standard uses the translation method equivalent to the IEC 61121.2012 "Household Drum Dryer Performance Test Method".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

--- GB 4706.20-2004 Special requirements for safety drum dryers for household and similar electrical appliances (IEC 60335-2-11.

2002, IDT).

This standard has made the following editorial changes.

--- Modified the standard name.

1 Scope

This standard applies to automatic or non-automatic household electric rolling with or without cold water source and with or without heating elements.

Tub dryer. This standard does not apply to tumble dryers that use flammable gases or other fuels as a heat source.

This standard specifies and defines the main performance characteristics and test methods for household and similar drum dryers.

Note. This standard also applies to tumble dryers for commercial use in apartments or self-service laundry rooms. This standard does not apply to drums for commercial laundry Clothes dryer.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2624.1-2006 Measuring full fluid flow with differential pressure devices installed in circular cross-section pipes - Part 1. General

Principles and requirements (ISO 5167-1.2003, IDT)

GB/T 17215.321-2008 Particular requirements for measuring equipment - Part 21. Static active energy meters (1 and 2)

Level) (IEC 62053-21.2003, IDT)

GB/T 23119-2017 Water for performance testing of household and similar electrical

appliances (IEC 60734.2012, IDT)

GB/T 35758-2017 Household appliance standby power measurement method (IEC 62301.2011, IDT)

Safety of household and similar electrical appliances - Part 2-11. Particular requirements for tumble dryers

(Household and similar electrical appliances - Safety - Part 2-11. Particular requirements for tumble

Dryers)

IEC 60456.2010 Household washing machine performance test method
(Clothes washing machines for household use -
Methods for measuring the performance)

ISO 80000-1.2009 Quantity and units Part 1. General (Quantities and units - Part 1. General)

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Tumble dryer

An apparatus for drying a fabric that is turned over in a rotating drum by flowing heated air.

3.1.2

Exhaust tumble dryer air vented tumble dryer

The fabric is dried by introducing fresh air, and the humid air is discharged or discharged through an exhaust duct to an outdoor tumble dryer.

3.1.3

Condensing tumble dryer condensertumble dryer

A tumble dryer that completes the drying process by depositing moisture in the air in the cylinder through a dehumidifying/condensing device.