

KASON-GTS02 Thermal Shock Tester for Glass Bottles



Note: The picture is for reference only

Intended Use

This thermal shock tester is designed to perform thermal shock resistance tests on various glass bottles, including beer bottles, wine bottles, beverage bottles, infusion bottles and antibiotic bottles. It evaluates the ability of glass containers to withstand rapid temperature changes, which is critical for brewing, beverage and pharmaceutical industries requiring container sterilization.

The instrument is designed and manufactured in accordance with GB/T 4547-2007 Test method for thermal shock resistance and thermal shock durability of glass containers and YBB 00182003 Determination of thermal shock and thermal shock resistance. It is an essential testing device for quality inspection centers, breweries and glass bottle manufacturers.

Testing Principle

Set the target temperatures for the hot and cold tanks to achieve the preset temperature difference. Heat glass bottle samples in the hot tank, then quickly transfer them to the cold tank. After testing, inspect the samples to determine the breakage rate.

Technical Features

TFT true-color touch screen for clear test display and easy operation

Equipped with a micro printer to print test results and breakage rates

Optional ISP online upgrade for personalized customization

Large test volume to accommodate all types of glass containers

Automatic cooling for improved repeat test efficiency

Cantilever structure for enhanced durability

High-speed processing chip for fast operation

Hot tank, cold tank and sample basket made of stainless steel

Electric lifting sample basket for easy operation and reduced labor

Leakage protection for safe operation

Application Scope

Beer bottles: Thermal shock test for beer bottles and glass beverage bottles

Liquor bottles: Thermal shock resistance test for glass liquor bottles

Infusion bottles: Thermal shock test for infusion bottles and antibiotic bottles

Vials: Thermal shock resistance test for vials and small glass containers

Specification

Item	Parameter
Temperature difference range	0–70 °C
Temperature control error	±1 °C
Capacity	Hot tank: 80 L; Cold tank: 80 L
Soaking time	Hot tank ≥15 min; Cold tank ≥80 sec
Control type	Fully automatic
Ambient temperature	5–40 °C
Relative humidity	≤80%, non-condensing
Dimensions	880 (L) × 530 (W) × 1300 (H) mm
Power supply	AC 220 V, 50 Hz
Net weight	130 kg
Compliance standards	GB/T 4547; YBB 00182003-2015
Configuration	Standard: Main unit, water pipe, sample basket, cover Optional: Test software, communication cable

FOCUS IN MATERIAL TEST

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