Heat Seal Tester GBB-A3



Introduction

The GBB-A3 heat sealer can accurately measure the heat sealing performance parameters, such as heat sealing temperature, heat sealing time, and heat sealing pressure, of food and pharmaceutical packaging cup lid films, including jelly cups, yogurt cups, coffee capsules, instant noodle buckets, lunch boxes, and medical blister packs. Different materials exhibit different heat sealing performance; by measuring these parameters, optimal heat sealing conditions can be accurately determined.

Test Principles

Mount the appropriate clamp onto the lower support plate of the instrument and place the sample on the clamp. Set the heat sealing temperature, heat sealing time, and heat sealing pressure as needed. Start the instrument with one button; the clamp on the instrument will descend to heat seal the sample. In manual mode, press the foot pedal once to press the heat sealing blade into place; the heat sealing time is determined by the time control setting. In automatic mode, the heat sealing instrument's upper and lower heat sealing blades repeatedly and automatically heat seal the sample according to the set time.

Standard

QB/T 2358-1998, ASTM F 2029, YBB00122003-2015

Specification

Item	Technical Parameters
Heat sealing temperature	Room temperature～250℃
Temperature control accuracy	±1℃
Heat sealing time	0.1s～99.99 h
Pressure gauge range	(0~1) MPa
Operating Mode	Automatic and manual modes
Air Source	Compressed air
Dimensions	730(L) mm×400(B) mm×535(H) mm
Weight	45 kg
Power	1200 W
Power Supply	AC 220V，50Hz

Features

- Pull-out Sample Loading Method

The lower tray features a double-layer stacking design, allowing for pull-out sample loading away from the sealing blade, offering both convenience and safety.

- High-Precision Temperature Sensor

A high-precision temperature sensor, combined with PID algorithm temperature control, achieves a temperature control accuracy of ±1℃, boasting exceptional stability and an extremely low failure rate.

- Personalized Testing Options

Choose between manual and automatic testing. Automatic mode saves time and provides repeatable, fully automatic sample heat sealing; manual mode features a convenient foot switch—simply press the foot switch to press the heat sealing blade, ensuring safety and ease of operation.

- New Air-Driven System

The drive system consists of a pressure gauge, pressure regulating valve, and cylinder. Compressed air is introduced, and the pressure is precisely locked via the pressure valve, pneumatically driving the heat sealing fixture for convenient and efficient operation.

- Extensive Customization Services

Customized fixtures can be provided based on sample requirements, and the fixtures can be freely switched according to cup size.

The heat sealing blade can be upgraded with an anti-stick function as needed, enhancing the user experience and making it easier to determine optimal heat sealing conditions.

The shape, size, and smoothness of the sealing heat cover can be customized to meet different scientific research needs.



Application

	
Jelly Cup	Yogurt cup
	
Coffee capsules	Medical blister packaging

Factory configuration

Standard configuration	Power cord, foot switch, Allen wrench, Phillips screwdriver
Optional	Measurement certificate, air compressor

Customer provides	1. Power supply: 500W 220V 10A 3-hole socket with grounding wire; 2. Air source (e.g., air compressor): 2.5HP, 8KG pressure; 3. High-pressure air hose (Φ8mm plastic hose); 4. Air filter (dust filter, oil filter, water filter);

Note: GBPI has always been committed to the innovation and improvement of product performance and function. For this reason, product technical specifications and appearance will also be changed accordingly. The above situation will not be notified. GBPI reserves the right of modification and final interpretation.



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Write industry standards with quality and become a leader and navigator in the field of global packaging testing. The 80,000-mile journey is underway, and GBPI will escort you!

Service Commitment

- Free technical support for packaging testing.
- One-year warranty for the instrument, free software upgrade service, and free technical support for life.
- Free in-plant training on instrument operation, graduation certificate issued to qualified personnel, free board and lodging.
- Instrument "old for new" policy, and spare instruments for use in case of failure.
- Equipped with a testing center (CNAS L8185), providing sample testing and sample data comparison services.
- Equipped with a reference material development center, providing calibration services.

For more details, please visit the GBPI official website. www.gbpitester.com

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