

product specification

SL-10 Laboratory Heat Sealer and Hot Tack Tester



Description

The SL-10 heat sealer and hot tack tester offers a complete solution for:

- heat sealing
- crimp sealing
- hot tack
- peel strength of seals

The multifunctional SL-10 is the most precise and consistent seal tester available. It is ideal for testing the sealing strength of flexible packaging materials and providing test data that are critical for determining optimum sealing conditions.

Operation

The SL-10 automatically heat seals the test sample and immediately determines the strength of the hot seal at a pre-set, accurately measured time. The touch-screen computer enables key parameters such as pressure, temperature and dwell time to be changed quickly. Built-in dual-load cells provide a very accurate measurement of the actual force applied to the seal.

Test results

The integral computer automatically compiles and displays test results graphically and stored test results can be easily recalled and viewed. Printer and data ports enable reports to be created and information exported.

Features

- Touch-screen computer
- Independent upper and lower sealing temperatures
- Dual-load cells for consistent sealing surface pressure
- Safety guards and switches for safe operation
- Video output for external monitoring

Physical specifications

Dimensions

56 x 43 x 73.5 cm (W x D x H)

Net weight

79.3 kg



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Options

- SL-10 hot tack unit: connects to the sealer
- Foot pedal: enables hands-free operation
- Quick-change seal jaw inserts: available in a variety of seal patterns – one set is included and custom patterns are also available
- Automatic sample-loading tray: guarantees accurate test results by eliminating user inconsistencies and enhances safety
- Phenolic seal jaw tray: for the storage of quick-change jaws when hot

Performance data

Sealing jaw options

Length 10 or 15 cm

Sealing temperature

Range 50–400°C

Resolution 0.1°C

Accuracy $\pm 0.2^\circ\text{C}$

Sealing pressure

Range 0.22–46.5 bar

Resolution 0.05 kg

Measuring accuracy ± 0.2 kg

Repeatability ± 0.2 kg

Dwell time

Range 25 ms to 20+ s

Resolution 1 ms

Accuracy ± 2 ms

Dual load cells (left and right)

Capacity 317.5 kg (total)

Accuracy 0.1 kg or less

Repeatability 0.1 or less

ASTM-4 standard calibration

Width 0.6–1.9 cm

Seal surface

flat, vertical or horizontal

custom or standard geometry

All jaws designed for quick and easy changeover

Power supply

220 V, 50 Hz, 1.2 kW

Air

5.5–8 bar (6 bar recommended)

Standard

ASTM F1921-98

