

Agilent PlateLoc Thermal Microplate Sealer

Data Sheet

Applications

- 1. Compound Storage
- 2. Screening

PCR/qPCR/rtPCR
Sequencing

Introduction

Agilent's PlateLoc Thermal Microplate Sealer is the premier thermal sealer for fast, easy, reliable microplate sealing. The PlateLoc Thermal Microplate Sealer has distinguished itself as the premier thermal sealer through its speed, small footprint, ease of use, and dependability. In designing the PlateLoc Sealer, the design engineers overcame the challenges of sealing a wide range of microplates by developing a versatile instrument that automatically accommodates deep well, assay, PCR and compound storage microplates. Stand-alone operators have full control of sealing time and temperature through the PlateLoc Sealer's touch screen, while a choice of plate stage inserts ensures the best possible seal for any microplate.

As with every Agilent Automation Solution, the PlateLoc Sealer is ideal for robotic integration, featuring an extended-travel plate stage, RS-232 serial port and ActiveX control. In order to minimize system downtime when replenishing consumables, the instrument features an easy to access, top-loading seal roll support and each new roll of seal includes a handy, seal-loading card that makes it simple and safe to install a new roll of seal. A variety of aluminum and clear seal materials are available for various applications.

Features & Benefits

- Easy to Operate: Touch-screen interface allows fast and easy manual operation.
- **High Precision:** With sealing temperature control of ± 2 °C and advanced seal slitting control, seal integrity will be the same for every microplate.
- **High Speed:** Fast cycle times, with no required cool down periods for rapid microplate sealing.
- Flexibility: Automatically adjusting to accommodate a wide range of microplates and tube racks, four types of plate stage inserts provide support for challenging microplate types.
- Ideal for System Integration: Smallest instrument footprint and numerous proven integrations make the PlateLoc Sealer a choice for system integrators.





Additional Information

Gas-Purging PlateLoc Sealer for Compound Storage

In addition to the standard Agilent PlateLoc Sealer, a Gas-Purging PlateLoc Sealer is also available, which uses inert gas such as Argon to displace air containing moisture and oxygen in the plate immediately before the sealing begins. The plate contents can be protected from hydration and oxidation for up to 24 hours. Typically used for compound storage applications, the Gas-Purging PlateLoc Sealer is best for plate contents that are sensitive to oxidation and moisture (for example, DMSO). Note: For typical polystyrene and polypropylene plates, the gas-purging effects can last up to 24 hours when the plates are stored at room temperature. The effects can last longer if the plates are stored at lower temperatures.

Now Available! Reference Guide to Optimal Thermal Microplate Sealing

Contact your technical sales professional or visit the PlateLoc Sealer product section of the website where you can register on-line and instantly download a PDF copy.

Labware Compatibility

Microplates: Thermal sealing compatible (raised sample well rims or "chimneys"), ANSI-compliant microplates including deep well microplates, PCR microplates and standard microplates in 96-, 384-, and 1536-well formats.

Microplate Material Types: Seals are compatible with polypropylene and polystyrene thermal sealing compatible microplates. (Thermal sealing compatible microplates feature raised sample well rims or "chimneys.")

Microplate Sealing Solution Workstation

For high-throughput sealing needs, the PlateLoc Sealer integrates easily with the Agilent BenchCel Microplate Handling System. With a capacity of two to six labware stacking racks, a PlateLoc Sealer and BenchCel system can automate the sealing of hundreds of microplates and provide walkaway convenience.

Specifications

Cycle Time: Approximately 8 seconds per plate

Heat-Up Time: 2.5 minutes

Cool-Down Time: 1 hour (from 160 °C to room temperature)

Sealing Temperature: 30 to 200 °C

Operating Requirements

Electrical: U.S.: 120 VAC, 50-60 Hz, Operating AC Current 6A/120V (typical), Inrush Current 20A/120V (typical) E.U.: 220 VAC, 50–60 Hz, Operating AC Current 3A/240V (typical), Inrush Current 40A/240V (typical)

Environment: 4–40 °C; 10–90% RH, non-condensing

Air: 70 Lpm at 6.2 bar [2.5 cfm at 90 psi]

Software: PlateLoc Sealer Diagnostics for real-time, manual control (setup/troubleshooting) or Agilent system software when part of an Agilent lab automation system. And ActiveX commands when using thirdparty software to control the PlateLoc Sealer.

Controller: Not required for manual operation; PC running Agilent system software for higher throughput applications when part of a lab automation system.

Interface: RS-232 serial port with DB9 connector

Certification: CE certified

Dimensions

Width: 21.6 cm [8.5 in] Depth: 39.9 cm [15.7 in] Height: 58.4 cm [23 in] Weight: 20 kg [45 lbs]

Warranties

Warranty for Instrumentation. A **12** month warranty is provided on all instruments manufactured by the Agilent Automation Solutions business unit. For more information, please see the Agilent *Terms of Sale* document.

Part No.	Description
G5402A	Agilent PlateLoc Thermal
	Microplate Sealer
5402A#225	Agilent Gas Purging
	PlateLoc
24210-001	Peelable Aluminum
	Seal PP/PS
06644-001	Aluminum Pierceable Seal
	Roll, Seals 5000 plates
16985-001	Clear Peelable Seal Roll,
	Seals 2000 plates



Seals ANSI-compliant microplates including deep well, PCR and standard microplates in 96-, 384-, and 1536-well formats.

Warranty for Consumables. These Agilent products, are backed with a 90-day warranty and a money-back guarantee. If Agilent receives notice of defects during the warranty period, Agilent shall, at its option, either repair or replace products which prove to be defective. If Agilent is unable, within a reasonable time, to repair or replace any product to a condition as warranted, the buyer shall be entitled to a refund of the purchase price upon return of the product to Agilent. The warranty period begins on the day of shipment.

This warranty shall not apply to any defect, failure, or damage caused by improper use or improper or inadequate maintenance or care. This warranty is exclusive and no other warranty, whether written or oral, is expressed or implied. Agilent specifically disclaims the implied warranties of merchantability and fitness for particular purposes. The remedies provided herein are the buyer's sole and exclusive remedies. In no event shall Agilent be liable for direct, indirect, special, incidental, or consequential damages (including loss of profits) whether based on contract, tort or any other legal theory.

Consumables

(Download a PDF copy of the *Seal Selection Guide* found in the PlateLoc Sealer product section of the website.)

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