

AutoSeal[™] Product Brief



At-a-Glance

Walk-away Automation – Assay stackers and fluid elevator mechanism facilitate walk-away automation.

Flexible – Automatically adjusts time, temperature and pressure to seal any assay regardless of height.

Fast – Seals 25 plates within 10 minutes

Reliable – Consistent and uniform sealing across all wells to prevent cross contamination

User Friendly – Intuitive user interface for programming up to 10 unique time-temperature sequences

Economical - Best in class performance at minimal total cost of ownership

TOMTEC AutoSeal Features

The AutoSeal thermal sealer is a small footprint bench top workstation designed to hermetically seal a variety of 96, 384 or 1536 assays plates within a single run, enabling a complete walk away automation process. The platform is ideal for a wide range of work-flows from the elution of Dried Blood Spot plugs to incubation of ELISA assays. The AutoSeal comes standard with a set of plate stackers capable of holding up to 25 low profile microplates per run. There is also an optional second stacker for doubling queuing capacity.

Control

The AutoSeal is provided with an intuitive user interface for programming temperature (from 100°C to 210°C) and seal time (1 to 99 seconds) for a fixed pressure. The imbedded controller can log up to 10 user specified time-temperature sequences, accessed and recalled by simply scrolling through a numerical list on the built-in display. This one bench-top AutoSeal workstation can accommodate a wide variety of plate types and thermal materials within an automated work-flow, minimizing your time to discover and operational costs.





Operation

The plates are fed from the bidirectional stackers via an elevator mechanism. The fluid motion of the mechanism prevents plate contents from being disrupted prior to being sealed and the hermetic seal is uniform across each of the wells, minimizing cross contamination. The bench top workstation can support a wide range of rolled, thermal-set laminate stock and three different material classes; foil, breathable, and a clear seal. The AutoSeal's pressure, temperature and time control allows users to precisely program the seals class, controlling adhesion and quality of seal. This translates to low levels of thermal residue on the plates and delivering a repeatable peel force, without sacrificing the quality of the seal.

Specification	Value	Dimensions
width	26	inches
depth	19	inches
height	26	inches
weight	80	pounds
power	700 (max)	watts
voltage	region specific*	vac

* Plug receptacle provide for region.

Seal Types	Applications	Areas of Study	Specifications
Foil	General Storage PCR Applications Compound Storage (DMSO) Short Term Storage Long Term Storage Cold Storage Immunology Archiving Plates	Genomics HTS Drug Discovery Proteomics Immunology Molecular Biology Microbiology	Operating Temp -80°C to 100°C Low Gas/Vapor Exchange Opaque
Clear	General Storage PCR Applications Compound Storage (DMSO) Short Term Storage Long Term Storage Cold Storage Immunology Archiving Plates	Genomic HTS Drug Discovery Proteomics Immunology Molecular Biology Microbiology	Operating Temp -80°C to 100°C Low Gas/Vapor Exchange Transparent
Breathable	Growing microorganisms Short Term Storage High Gas exchange environment	Molecular biology Microbiology Zoology Ecology	Room Temperature to 37°C High Gas/Vapor Exchange

