

Ultraseal[™]LITE

THE INTUITIVE, SEMI-AUTOMATIC HEAT SEALER

Porvair Sciences UltrasealTM LITE is the effortless, lightweight heat sealer designed to tightly seal polypropylene, polyethylene and polystyrene microplates and glass tubes. Ideal for low to medium throughput laboratories, this compact and user-friendly instrument is fully electrical with no gas inputs required and can seal up to 6 plates per minute with a high degree of integrity and reproducibility. The UltrasealTM LITE is intuitively designed to auto-detect and adjust in response to a wide range of plate heights thereby eliminating the need of spacers and reducing the risk of cross-contamination in standard microplates sealing.

Key Features

- Simple slide & seal operation
- Seal up to 6 plates per minute
- Fully electric for reliable sealing and optimal programming
- Auto-adjusting sensors for different plate heights (no spacers required)
- Suitable for polypropylene, polyethylene and polystyrene plates
- Ability to seal PCR plates

Slide and Seal

Pre-cut sheets of surface modified aluminium or plastic film (~78 mm x 128 mm) are placed on the plate surface and the sliding drawer pushed closed to initate sealing program. There is no need for plate height spacing as the UltrasealTM LITE has ability to seal from 9 mm to 48 mm tall plates. In under 10 seconds, plates are tightly sealed, automatically ejected and ready for downstream applications such as storage and transportation.

Smooth Operation

Constant time and pressure is key to obtaining consistent and a tight seal each and every time. The system operation is designed to efficiently and accurately align a heat-activated sealing medium to a microplate or tube rack top surface. Using the touch screen control pad, heat and time based variables can be easily programmed to optimise the quality, strength and integrity of sealing. The UltrasealTM LITE has a temperature range of up to 200°C to suit a wide range of sealing films and foils. Check out our sealing guidelines for microplate types below.

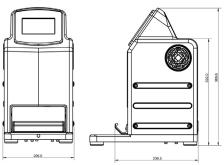


Product Features

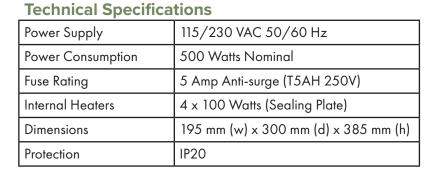
Plate Height Range	9 mm - 48 mm					
Weight	9 kg					
Temperature Range	up to 200°C					
SBS Format	Yes					
Well Numbers	24-, 48-, 96- and 384-well					
Compressed Air Required	No					
Spacers Required	No					
Sealing Time	up to 10 sec/plate					

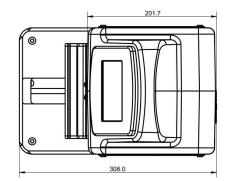
Product Compatibility

Polystyrene Microplates	Yes
Polypropylene Microplates	Yes
Polyethylene Microplates	Yes
Foil Seals	Yes
Optical Seals	Yes
Gas Permeable Seals	Yes
Manual Pre-cut and Apply Seals	Yes









Sealing Guidelines

Plate Material	Temperature Setting (°C)	Time Setting (seconds)				
Polystyrene	145-165	2-5				
Polypropylene	150-175	2-5				
Polyethylene	150-170	2-5				

Ordering Information

Product #	Description
500091	Ultraseal™ LITE, the adaptable semi-automatic microplate sealer.

Contact Information

EU/RoW Enquiries

Email: int.sales@porvairsciences.com

USA Enquiries

Email: info@jgfinneran.com







Sealing Films and Foils

Explore the diverse range of sheet-form, sealing films available for a wide range of laboratory applications. All compatible with the Ultraseal™ LITE. Format: Sheets (125 mm x 78 mm)

Pack Size: 100 per Pack



Product	Product # (Non-Sterile)	Product # (Sterile)	Description	Appearance	Solvent Restistance	Temp Range (°C)	Gas Permeable	Peelabe	Pierceable	Plate Compatibility	Applications
ClearSeal	500293-M	500294-M	Clear, peelable film for wide range of plate material	Optically clear film	Moderate	-80 to 80	No	Yes	No	PP, PE, PS, COC	qPCR, short-term compound storage
ClearSeal	500299-M	500300-M	Clear, non-pierceable permanent seal with high solvent resistance	Optically clear film	Good, DMSO Resistant	-80 to 110	No	No	No	PP	Optical applications, water bath, PCR, use of DMSO & other solvents
ClearSeal	500296-M	500297-M	Clear, pierceable permanent film	Optically clear film	Moderate	-80 to 80, or 110 with pressurised PCR-heated lids	No	No	Yes	PP, PE, PS, COC	ABI 3730 PCR sequencer
PeelSeal	500302-M	500303-M	Non-pierceable, permanent foil	Foil (white laminate)	Moderate	-80 to 110	No	Yes	No	PP, PE, COC	PCR, good liquid barrier, low temp short-term compound storage, re-sealable
PeelSeal	500308-M	500309-M	Non-pierceable, peelable foil with high solvent resistance	Foil	Excellent	-80 to 80	No	Yes	No	PP, PE, COC	Compound storage at low & ambient temperature, with DMSO & other solvents
PierceSeal	500311-M	500312-M	Pierceable, permanent foil with high temperature stability	Foil with green dashed line	Good, DMSO Resistant	-20 to 120	No	No	Yes	PP, PS	PCR, compound storage, sample shipping, can seal over existing seal
PierceSeal	500317-M	500318-M	Pierceable and peelable foil with high temperature stability	Foil with solid green line	Good, DMSO Resistant	-20 to 110	No	Yes	Yes (on PS plates)	PP, PS	PCR, low temp compound storage, short term ambient temp storage, re- sealable
ThermSeal	500320-M	500321-M	Thermal cycler foil for wider temperature range for PP & PS plates	Foil	Good, DMSO Resistant	-200 to 110	No	Yes	No	PP, PS	PCR, water bath thermo cyclers, long term compound storage of hazardous materials

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Gas PermSeal	500323-M	500324-M	Gas permeable, pierceable and peelable seal for cell culture applications	Non-woven, cream	None	-20 to 80	Yes, impervious to fluids	Yes	Yes	PP, PS	Short-term incubation, agriculture & seed storage, cell culture, for use in autoclaves
ClearSeal	500329-M	500330-M	Clear, peelable and perforated for gas permeable applications	Transparent perforated film	Moderate	-80 to 80	Yes	Yes	No	PP, PE, PS, COC	Short term incubation, seed & insect storage, cell culture, can be resealed for transport
Gas PermSeal II	500326-M	500327-M	Pierceable, peelable and gas permeable seal	Grid effect coated paper	None	-20 to 80	Yes	Yes	Yes	PP, PS, COC	Short term incubation, agriculture and seed storage, insect storage and cell culture
PeelSeal Foil SUPER	500305-M	500306-M	Non-pierceable, peelable seal with high resistance to DMSO	Foil (White laminate)	Good, DMSO Resistant	-80 to 110	No	Yes	No	PP, PE, PS, COC	PCR, low temperature, short term compound storage, short-term room temperature compound storage
PierceSeal Foil SUPER	500314-M	500315-M	Pierceable, peelable foil with high DMSO resistance	Foil	Good, DMSO Resistant	-80 to 80	No	Yes	Yes	PP, PE, PS, COC	PCR, compound storage, shipping

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