

Ultraseal™ CAP-LITE

Manual microplate and tube rack cap mat applicator



The Ultraseal™ CAP-LITE is the manual version of our semi-automated Ultraseal™ CAP-PRO. Gently pulling down on the sturdy hand pull applies friction sealing mats or septum sealing caps to SBS format tube racks.

Simply place your rack or plate with its associated friction mat or septum cap web in the drawer, push it firmly shut and pull down the hand pull to seal. The Ultraseal™ CAP-LITE offers a highly economical route into cap and mat application for laboratories running smaller throughputs.

- Works with most commercially available septum cap mats
- Works with 2D-coded and uncoded tubes in SBS-format racks
- Handles friction and septum seals for 24-, 48- and 96-tube plates
- Supplied with reversible plate shuttle for shallow or deep well plates
- Alternative rack adaptors available to order

Width	120mm
Depth	314mm
Height (handle height additional depending on position)	130mm
Product code	229078

Ultraseal™ CAP-PRO

Semi-automated microplate and tube rack cap and mat applicator



The Ultraseal™ CAP-PRO has been designed to take the strain out of applying friction sealing mats or septum sealing caps to SBS format tube racks and plates. Simply place your rack or plate with its associated friction mat or septum cap in the drawer and push it firmly shut.

Initiate sealing with the large, glove-friendly start button and the sophisticated electronics take over, applying reproducible and even pressure every time to force the septum seals down into each tube or well. It's more reproducible, quicker and less likely to cause a strain injury than trying to do this manually.

- Works with most commercially available septum cap mats
- Works with 2D-coded and uncoded tubes in SBS-format racks
- Handles friction and septum seals for 24-, 48-, 96- and 384-tube plates
- Three pressure settings
- Supplied with 4.5mm and 14mm high rack adaptors
- Alternative rack adaptors available to order

Width	180mm
Depth	285mm
Height	280mm
Product code	250-10080

Ultraseal™ LITE

Semi-automated heat-applied plate sealer



The Ultraseal™ LITE is a semi-automated heat-applied microplate and tube rack sealer. The unit uses pre-cut sheets of surface modified aluminium or plastic film, approximately 78mm wide and 130mm in length, applied to the plate top surface to create the seal between plate and film.

The system has the flexibility to seal a wide range of plate types and switching between different sealing protocols is a simple through touch screen settings of sealing temperature and time

- Desktop semi-automated heat-applied plate and tube sealing system
- Seal SBS format micro well plates
- Seal plate height with no adjustment from 9mm to 48mm high
- Temperature range from ambient to 200°C
- Seal time from 0.1 to 9.9 seconds
- Simple slide operation
- Automatic eject when timed seal completed
- Combined temperature and seal time display
- No compressed air required

Width	180mm
Depth	285mm
Height	280mm
Product code	500091

Ultraseal™ PRO

Automated heat-applied microplate and tube rack sealer



The Ultraseal™ PRO is an automated heat-applied microplate and tube rack sealer. The unit uses a roll of surface modified aluminium or plastic film approximately 78mm wide, positioned to the rear of the sealing section.

Using a total inline method, the film is pulled through the main unit, cut to between 125mm and 130mm in length and then applied to the plate top surface to create the seal between plate and film.

- Automated heat-applied microplate and tube rack sealer
- Uses a roll of surface modified aluminium or plastic film
- Works with a wide range of plates, tube racks and custom applications
- Seals support polystyrene, polypropylene and CoC & CoP plate formats
- Gas Purge option available
- Automatic eject when timed seal completed
- Combined temperature and seal time display
- Seals up to 6 plates per minute

Width	195mm
Depth	630mm
Height	450mm
Product code	500290

Ultraseal™ ePRO-MINI

Automated PCR plate sealer



The Ultraseal™ ePRO-MINI is designed for automated workflow systems requiring a sealing step for a medium rate of plate usage. The design uses individual sheets loaded in a proprietary frame format, eliminating the need for large rolls of seals used by high throughput sealing instruments.

A cartridge containing 20 seals is loaded into the sealer and a uniquely designed pickup process collects a seal, applies it to the

plate, heat seals the two and ejects the spent frame. The parameters and operation can easily be automated with simple commands to communicate with lab robots.

- Intuitive touchscreen user interface
- Closed loop-controlled sealing temperature
- Tool-free foil loading
- Automatically compensates for plate heights
- Variable seal time and temperature control via screen or comms
- Ideal for medium use automated sealing of 96mm plates with optically clear film suitable for qPCR applications.

Width	338mm
Depth	314mm
Height	310mm
Product code	250-10082

Ultraseal™ ePRO

Full electrical operation plate sealer



Featuring all electric operation, making it suitable for laboratory automation. The use of force sensors allows dynamic feedback during the entire sealing process to ensure homogenous sealing, all controlled through the intuitive touchscreen interface.

Capable of handling foil lengths between 118mm and 128mm, the ePRO automatically compensates for variations in plate heights.

The Ultraseal™ ePRO uses positive force grippers, it is fully compatible with gas permeable sealing foils

- No need for compressed air supply
- Variable foil length 118mm to 128mm
- Closed-loop seal force monitoring and control system
- Sealing force tolerance allows the force applied to be defined
- Closed-loop controlled sealing temperature
- Tool-free foil loading; gas permeable films can be processed
- Automatically compensates for plate heights
- User-settable variable seal time and pressures via screen or comm

Width	234mm
Depth	845mm (shuttle out, including film roll)
Height	530mm
Product code	250-10039

Ultraseal™ XT-PRO

Automated heat applied microplate and tube rack sealer



The Ultraseal™ XT-PRO unit is an automated heat applied microplate and tube rack sealer. The unit uses a roll of surface modified aluminium or plastic film approx. 78mm wide and 610mm long, positioned to the rear of the sealing section.

Using a total inline method, the film is pulled through the main unit, cut to between 125mm and 130mm in length

and then applied to the plate top surface to create the seal between plate and film. Offering complete versatility, the sealer will work with a wide range of plates, tube racks and custom applications shallow and deep well formats, and custom mouldings. Our latest range of seals support polystyrene, polypropylene and CoC & CoP plate formats with a range of film substrates please contact us for further details.

- Able to use multiple manufacturers' plates across applications
- Supports polystyrene, polypropylene and CoC & CoP plate formats
- Can accept plates, vials and tubes of up to 10cm tall
- Easy to program
- Operator and integrator friendly

Width	175mm
Depth	625mm
Height	440mm
Product code	250-10011XT

Ultraseal™ COLD-PRO

Automated adhesive plate sealer



The Ultraseal™ COLD-PRO unit is an automated adhesive pressure applied microplate and tube rack sealer. The unit uses a roll of surface modified aluminium or plastic film approx. 80mm wide and 200mm long, positioned to the rear of the sealing section.

Using a total inline method, the film is pulled through the main unit, cut to between 124mm and 130mm in length and then applied to the plate top surface to create the seal between plate and film.

- Automated adhesive pressure applied microplate and tube rack sealer
- Uses a roll of surface modified aluminium or plastic film
- Works with a wide range of plates, tube racks and custom applications
- Seals support polystyrene, polypropylene and CoC & CoP plate formats
- Complete solution to application of adhesive and pressure based films
- Both pneumatically and electrically operated
- Easy to program and operator and integrator friendly

Width	125mm
Depth	390mm
Height	270mm
Product code	250-10081

UltraPPM™ LITE

Positive pressure manifold



The UltraPPM™ LITE positive pressure manifold uses an adjustable two stage positive pressure system, to reduce processing time for filtration and SPE plates.

Positive pressure is ideal for processing viscous samples of where better control of the applied force is required. Switching between 384, 96, 48 and 24 well plates is a simple user changeable option.

The UltraPPM™ LITE is designed with an ergonomic sloping front that makes the dials and flow meter easier to read and hence improves the reproducibility of the manually set pressures and flow parameters and therefore the extraction. The system requires a two handed operation and is designed with protected release buttons to ensure safe handling and prevent accidental triggering.

- Increase sample preparation throughput
- Fine control of pressure and flow for high reproducibility
- Compatible with wide range of 24-, 48- and 96-well plates
- SPE, PLR, SLE, filtration applications
- Simple, safe and reliable
- Ideal for viscous and difficult samples

Width	280mm
Depth	340mm
Height	305mm
Pneumatic supply	7bar (105psi), 100LPM
Product code	250-10083

Ordering information

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