



Microplate and tube rack sealers

e-Seal

Fully integrated stacker and liquid dispensing system

Featuring all-electric operation, the e-Seal removes the risk of cross contamination inherent in compressed air powered sealers. 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 widths between 115mm and 128mm, the e-Seal automatically compensates for variations in plate heights. Gas permeable films can also be processed.

KEY FEATURES

- All electric operation, removing the risk of cross-contamination inherent in compressed air powered sealers
- No need for expensive compressed air supply
- Intuitive touchscreen user interface
- Variable foil width 115mm -128mm
- Closed-loop seal force monitoring and control system, use of force sensors allows dynamic feedback during entire sealing process to ensure homogenous sealing
- Sealing force tolerance allows the force applied to be defined within the software
- Closed-loop controlled sealing temperature
- Tool-free foil loading; gas permeable films can be processed
- Automatically compensates for plate heights
- Integrator-friendly design
- User-settable variable seal time and pressures via screen or comm
- Simple set up
- Quieter than conventional pneumatically driven unit
- Quick change maintenance modules for fast service response



Length, Shuttle in	???
Length, Shuttle out	???
Shuttle Height	???
Width	234.6mm
Height	530mm
Power requirement	110/220 vac
System weight	25kgs

e-Fly

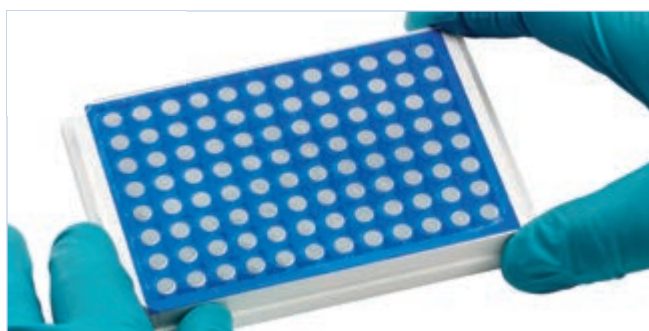
Semi-automated heat-applied plate sealer

The e-Fly 2 unit is a semi-automated heat applied micro plate and tube rack sealer. The unit uses pre-cut sheets of surface modified aluminium or plastic film, approximately 85mm wide and 130mm in length, applied to the plate top surface to create the seal between plate and film.



KEY FEATURES

- Desktop semi-automated heat applied plate sealing system
- Seal SBS format micro well plates
- Seal plate height with no adjustment from 9–48mm high
- Temperature range from ambient to 200° C
- Seal time from 0.1–9.9 seconds
- Simple slide operation
- Automatic eject when timed seal completed
- Combined temperature and seal time display
- Lightweight system only 6kgs (14lbs)
- 110/220 vac power compatible
- No compressed air required



Width	181mm
Height	278mm
Power requirement	110/220 vac
System weight	???

Wasp

Automated heat-applied microplate and tube rack sealer

The Wasp unit is an automated heat applied micro plate and tube rack sealer. The unit uses a roll of surface modified aluminium or plastic film approx. 78mm wide and 610m long, the roll is positioned to the rear of the sealing section via a removable stand, 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.



KEY FEATURES

- 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
- Both pneumatically and electrically operated
- Gas Purge option available
- Automatic eject when timed seal completed
- Combined temperature and seal time display
- Lightweight system only 6kgs (14lbs)
- 110/220 vac power compatible
- No compressed air required
- 6 plates per minute
- Easy to program and operator and integrator friendly



Length, Shuttle in	???
Length, Shuttle out	???
Shuttle Height	???
Width	185mm
Height	394mm
Power requirement	110/220 vac
System weight	12kgs

Gas Purge option allows the user to lay a heavy gas coating to the well surface prior to sealing, this will then once sealed offer a protective barrier to the air void often left between sample and seal, with the gas laid prior to sealing an oxygen reduce or virtually oxygen free space environment can be achieved.

Kaps

Semi-automated plate sealer

The Kaps unit is an automated adhesive pressure applied micro plate and tube rack sealer. The unit uses a roll of surface modified aluminium or plastic film approx. 78 to 85mm wide and 200m long, the roll is positioned to the rear of the sealing section via a removable stand, 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.

KEY FEATURES

- Automated adhesive pressure applied micro plate 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



Length, Shuttle in	596mm
Length, Shuttle out	811mm
Shuttle Height	64mm
Width	370mm
Height	453mm
Power requirement	110/220 vac
System weight	15kgs

CaptoMat

Fully integrated stacker and liquid dispensing system



Cap-to-Mat is a semi-automatic system for the sealing of sample tubes and storage plates in 96-well SBS formats using TPE septum caps

For laboratories having to seal medium numbers of tube racks the Cap to Mat offers an affordable solution. Compact and portable, the Cap to Mat is very easy to use, requiring only one operation of the system to produce an accurate and tight seal on the tubes when using TPE Septum Mats

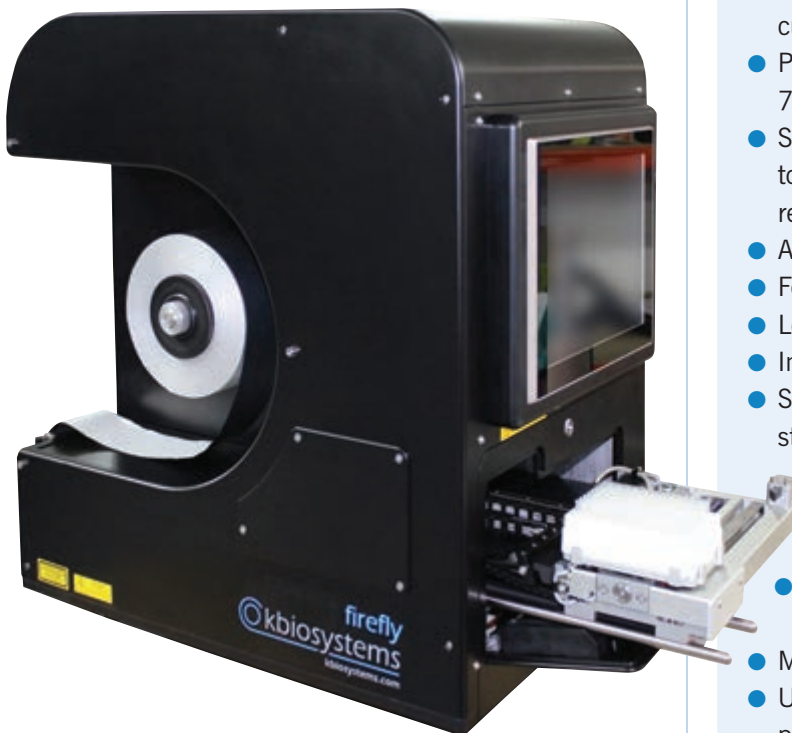
Length	390mm
Width	125mm
Height	270mm
Power requirement	115-240 VAC
System weight	6.5Kg

FireFly

Heater sealer and laser cutting platform

The FireFly uses a fiber laser to generate a beam using a core laser source and amplify it in specially designed glass fibers, supplied with energy via pump diodes. With a wavelength of 1.064 micrometres, the beam produces an extremely small focal diameter, making the intensity up to 100 times greater than conventional CO₂ lasers.

The FireFly is highly suited for metal cutting, or marking metal or light range absorbent materials for high-contrast plastic marking or cutting. The unit is maintenance-free, and promises a long service life of at least 25,000 laser hours.



KEY FEATURES

- Desktop automated heat sealing and laser cutting system
- Designed for SBS format tube racks
- Custom applications and cut profiles upon request
- Plates/tube racks can be pre-scored leaving minimal seal thickness to reduce tip/probe piercing pressures
- Tubes can be individualised to allow random access in any format, also allowing seal or cut-only processing
- Plate/tube rack heights with no adjustment from 7 to 48mm high
- Seal pierce operational compliant, allows plates to be stored fully sealed then pre-pierced to reduce tip damage
- Auto plate/rack present sensing
- Foil present sensing
- Low air sensing
- Inbuilt touch panel, PC-based, GUI controlled
- Stacker compatible with KBiosystems Scorpion stacker for increased throughput
 - Integrator friendly
 - Plate density independent, 96, 384, 1536, 3456 and higher
- Plates can be resealed and then re-pierced multiple times
- Minimal heat transfer from laser
- Uses latest Fibre laser technology for long process life
- Extraction port if require fitted to system top

Length, Shuttle in	640mm
Length, Shuttle out	830mm
Shuttle Height	200mm
Width	455mm
Height	730mm inc. extraction port
Power requirement	110/220 vac
Main air supply	5.5bar (85psi) at 70LPM
System weight	90kgs



Kbiosystems



Kbiosystems has been providing automated solutions since 1991 for the automotive, life science, plant and animal science, biofuel, diagnostic automation and optical lens manufacturing sectors.

The company's offering includes a product business providing instrumentation for research laboratories worldwide, complemented by a custom automation business that takes automation concepts and delivers fully designed, manufactured and installed system solutions.

With multiple business units, a unique manufactured standard product range, OEM customer platforms, and custom design, Kbiosystems has the experience, technical expertise and accreditations to meet the requirements of any industry.



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