Automated laboratory solutions
catalogue 2024 - Version 1

porvair
sciences

Welcome to the Porvair Sciences automated laboratory solutions catalogue. Porvair has been providing automation to the life science, chromotography, plant and animal science, biofuel, diagnostic automation and automotive sectors, since 1991.

This catalogue demonstrates our range of plate sealers, plate handlers, blowdown evaporators, barcode applicators, colony pickers and PCR automated thermal cyclers.

To order, or for further information on any of our products, please call us on **+44 (0)1978 661144**, or email **info@porvairsciences.com**

![porvair sciences logo]

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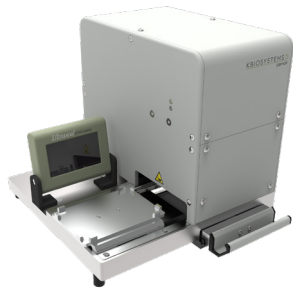
The Ultraseal™ ePRO-MINI is designed for automated workflow systems requiring a sealing step for a medium rate of plate usage. The design uses individual sheets loaded in a proprietary frame format, eliminating the need for large rolls of seals used by high throughput sealing instruments.

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 9mm 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

Description	Product Number
Ultraseal™ CAP-LITE (PAGE 3)	**250-10019**
Ultraseal™ CAP-PRO (PAGE 3)	**250-10080**
Ultraseal™ LITE (PAGE 4)	**500091**
Ultraseal™ PRO (PAGE 4)	**500290**
Ultraseal™ ePRO-MINI (PAGE 5)	**250-10082**
Ultraseal™ ePRO (PAGE 5)	**250-10039**
Ultraseal™ XT-PRO (PAGE 6)	**250-10011XT**
Ultraseal™ COLD-PRO (PAGE 6)	**250-10081**
UltraPPM™ LITE (PAGE 7)	**250-10083**

Notes:

Scorpion
SBS plate handler

The Scorpion range offers the user the ability to step up to automated plate handling with a number of OEM liquid handling systems.

Using custom designed integration plates, the Scorpion maintains locks in place relative to the receiving equipment for repeatable plate handling. With the ability to handle up to 72 assay plate, the Scorpion is ideal as a simple way to improve laboratory efficiency.

Offering complete versatility, the Scorpion will work with a wide range of plates, tube racks, shallow and deep well formats and can load plates to the left or right, depending on the needs of the laboratory.

- Easy to program
- Operator and integrator friendly
- Able to use multiple plastic ware manufacturers' plates
- Robustly engineered
- Handles plates with or without lids (lid lift optional)
- Direct integration via RS232 link
- Proprietary firmware and application driver
- Handles all SBS footprint applications and range of racks
- Easily integrates with the Porvair Sciences range of automation friendly evaporators and sealers

Width	773mm
Depth	665mm
Height	650mm (full height stack plate range), 325mm (half height)
Product code	**250-10024**

Ordering information

Description	Product Number
Scorpion Plate Handling System (right hand feed) (PAGE 13)	**250-10024**
Scorpion plate handling system left hand feed	250-10024-002
Scorpion nexcelom celigo system	250-10024-002NXL
Scorpion hidex sense system	250-10024-002HDX
Scorpion thermo multidrop system	250-10024-002TH
Scorpion thermo versa system	250-10024-002THV

Notes:

Ultravap® Mini

Blowdown evaporator

The Ultravap® Mini blowdown evaporator is purpose designed for low usage research and development departments where low numbers of individual plates or vials need drying. The Ultravap Mini is simple to operate and maintain.

Installation requires only connection to a gas supply and standard mains socket. With manual control of the needle depth, gas temperature and flow rate, it allows fine control and quicker drying times than other standard methods.

- Quicker dry down times than standard methods such as vacuum oven
- Designed for any ANSI/SLAS 96-well plate
- 24 & 48 vial heads now available
- Simple to install and operate
- Easy adjustments of temperature, gas flow rates and needle depth into the wells
- Compact footprint - fits all standard fume cupboards
- Simple manual operation for the occasional procedure
- Maximum temperature 60°C
- Maximum flow rate 90 l/min

Width	240mm
Depth	370mm
Height	385mm
Product code	**229206**

Ultravap® Gemini

Blowdown evaporator

The nitrogen drydown process is ideal for lower boiling point organic solvents such as methanol, dichloromethane, hexane and acetonitrile. The robust design of the Ultravap® Gemini evaporator brings together for the first time in our range two individually temperature-regulated evaporation positions with a wide choice of head styles and configurations. This means you can dry down a 96-well deep well plate at the same time as 48 HPLC vials. This breakthrough in productivity will speed up the evaporation bottleneck in your laboratory, increase the sensitivity of your analyses and quicken sample processing times.

- Dual plate capability to double sample throughput
- Simplifies switching between different heads
- Max temp / flow: 60°C and 90 l/min
- Individual gas and temperature setting for each plate
- Simultaneously dry two plates or quickly switch between plate formats
- Choice of evaporator heads
- Compact, lightweight design

Width	380mm
Depth	370mm
Height	385mm
Product code	**500234**

Ultravap® Levante

Blowdown evaporator

The Ultravap® Levante is an ideal starter evaporator for the efficient concentration of samples. The standalone instrument is designed to consistently and reproducibly evaporate organic solvents from samples.

Precisely engineered to ANSI/SLAS standard, the Ultravap® Levante evaporator is designed to securely fit all microplate formats and tube racks for glass vials up to 45mm.

- Reproducible Evaporation: Advanced head technology for consistent hot gas injection in each tube and well
- High Sample Throughput: Choice of 12-, 24-, 48-, 96- and 384 needle heads
- Clean Concentration: System built to eliminate risk of cross-contamination
- Three programmable steps per method, 5 method storage
- Maximum temp: 80°C, Maximum flow rate 90/min
- Ideal for sensitive samples: Bulk of sample remains at ambient, only the surface is heated
- Intuitive Design: Slim and compact

Width	195mm
Depth	440mm
Height	400mm
Product code	**500226**

Ultravap® Mistral

Blowdown evaporator

The new flat front profile and platform shuttle on the Ultravap® Mistral enables greater interfacing with liquid-handling robots for increased automation efficiency. Reproducible sample throughput is achieved by recent advancements in gas injection technology to directly and consistently deliver heated gas in each well and tube.
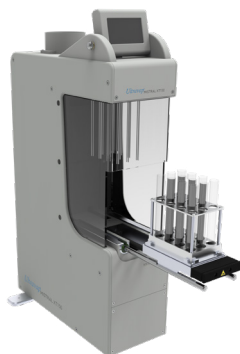
The Ultravap® Mistral is a highly sophisticated automation-friendly model, offering significant throughput advantages to laboratories looking to optimise sample preparation.

- Automation-Friendly: Flat front profile and platform shuttle for greater interfacing with liquid-handling instruments
- Reproducible Evaporation: Advanced head technology for consistent hot gas injection (up to 80°C) in each tube and well
- High Sample Throughput: Choice of 12-, 24-, 48-, 96- and 384 needle heads
- Clean Concentration: System: Built to eliminate risk of cross-contamination. Ideal for sensitive samples
- Ideal for sensitive samples: Bulk of sample remains at ambient, only the surface is heated
- Five programmable steps per method, 15 method storage
- Max temp: 80°C, Max Flow rate 90/min

Width	195mm
Depth	440mm
Height	400mm
Product code	**500149**

Ultravap® Mistral XT150

Blowdown evaporator

The Ultravap® Mistral XT150 blowdown evaporator is designed to remove the traditional laboratory 'bottleneck' of solvent evaporation from glass tubes. The new flat front profile and platform shuttle enables greater interfacing with liquid-handling robots for increased automation efficiency. Reproducible sample throughput is achieved by recent advancements in gas injection technology to directly and consistently deliver heated gas in each tube (up to 150mm in height).

The Ultravap® Mistral XT150 is a highly sophisticated automation-friendly model and offers significant throughput advantages to laboratories looking to optimise sample preparation

- Automation-Friendly: Flat front profile and platform shuttle for greater interfacing with liquid-handling instruments
- Reproducible Evaporation: Advanced head technology for consistent hot gas injection (up to 80°C) in each tube and well
- Custom design of holders and needle heads for individual sample types
- Clean Concentration: System built to eliminate risk of cross-contamination. Ideal for sensitive samples
- Ideal for sensitive samples: Bulk of sample remains at ambient, only the surface is heated
- Intuitive Design: Slim and compact bench-friendly design with built-in LED lights for greater sample visibility

Width	195mm
Depth	440mm
Height	735mm
Product code	**500292**

Ordering information

Description	Product Number
Ultravap® MINI (PAGE 15)	**229206**
Ultravap® Gemini (PAGE 16)	**500234**
Ultravap® Levante (PAGE 17)	**500226**
Ultravap® Mistral (PAGE 18)	**500149**
Ultravap® Mistral XT150 (PAGE 19)	**500292**
18mm/16mm 3X4 (4 needles per well) head only	150-10045-100A
18mm 3x4 table holder only	150-10045-100B
18mm/16mm 3x4 (4 needles per well) head only	150-10045-101A
16mm 3x4 tube holder only	150-10045-101B
15mm 3x4 (4 needles per well) head only	150-10045-102A
15mm 3x4 tube holder only	150-10045-102B
13mm 5x3 (3 needles per well) head only	150-10045-103A
13mm 5x3 tube holder only	150-10045-103B
10mm 6x5 (1 needle per well) head only	150-10045-104A
10mm 6x5 tube holder only	150-10045-104B

Needle heads

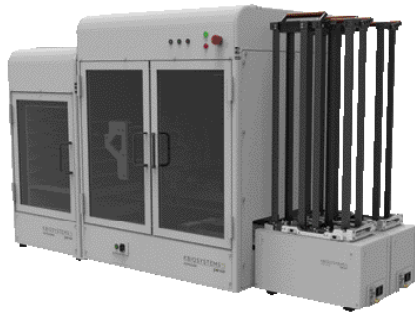|	
96 straight needle head	229036
96 spiral needle head	229072
384 straight needle head	229073
24 straight needle head	229409
48 straight need head	229410

Needle head/adapter designs can be manufactured to suit any sample carrier

Notes:

K6³

Automated colony picking system

K6³ automated colony picking systems represent an ideal entry-level system for laboratories looking for reliable, consistent identification and extraction for sample recovery.

Offering complete versatility, the K6³ Series will work with a wide range of plates for both source and destination, such as microplates (96,384 shallow and deep well formats), Petri Dishes (from 4 to 15cms), Omni style trays, multi-well growth plates and bio assay trays.

Picking accuracy is in excess of 98.5%. The use of different pin types allow transfer volumes to be defined and all pins are manufactured in 316 stainless steel for ease of cleaning and longevity.

The system is available in three configurations: K6³ picker only, K6³ XT picker with automated destination plates, single or dual lane and K6³ XL picker with automated source trays and destination plates (single or dual lane).

- Picking accuracy in excess of 98.5%
- Full positional feedback
- Imaging carried out via USB3 camera system
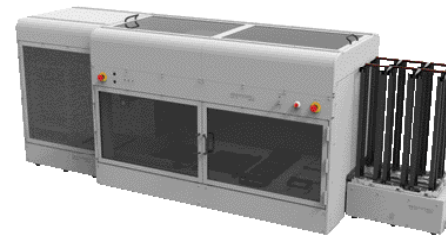
K6³ (picker only)	1000mm x 799mm (HxW)
K6³ XT (picker with automated destination plates)	1000mm x 1215mm (HxW)
K6³ XL (picker with automated source trays and destination plates)	1000mm x 1934mm (HxW)
Product code (K6³ picker only)	**250-10059**

K8

Automated colony picking system

The K8 series of automated colony picking systems offer laboratories the ideal medium throughput solution for reliable, consistent identification and extraction for sample recovery.

Offering complete versatility, the K8 series will work with a wide range of plates for both source and destination, such as microplates (96, 384 shallow and deep well formats), Petri dishes (from 4 to 15cms), Omni style trays, multi-well growth plates and bio assay trays.

An increase in operational capacity is offered with the option to fit one or two destination plate automation lanes. These allow the processing of up to 220 standard destination plates and up to 60 deep well blocks. Second stage automation allows the automatic handling of 8 source tray locations.

The system is available in three configurations: K8 picker only, K8 XT picker with automated destination plates (single or dual lane) and K8 XL picker with automated source trays and destination plates (single or dual lane).

- Picking accuracy in excess of 98.5%.
- Full positional feedback
- Imaging carried out via USB3 camera system

K8 (picker only)	1078mm x 1665mm (HxW)
K8 XT (picker with automated destination plates)	1078mm x 2276mm (HxW)
K8 XL (picker with automated source trays and destination plates)	1078mm x 2990mm (HxW)
Product code (K8 picker only)	**250-10048**

PCR
Thermal cycler automated systems

The DT-24 uses a three tank water bath system to create the desired temperatures for all steps of the PCR process. Our patented compression basket system allows the use of 96-, 384- and even 1536-well PCR plates to be cycled without changing the basket or modifying the heater blocks as is currently required in Peltier units. We use plate holders to maintain pressure and as a side effect of this, we have found that once cycled, the plates also remain flat for improved post-PCR operations. The compression basket also allows the use of adhesive or easily removable seal for multiplex type operations.

The DT-24 Thermal Cycling PCR system is an alternative way of carrying out medium and high throughput PCR protocols on DNA replication and incubation to micro well format plates.

Conventionally, Peltier heat transfer units have been used to carry out these operations, however, these can prove costly when trying to increase productivity throughput, and do not optimise the yield potential.

- Reduced energy used by the systems
- Cost of system change over between varying plates
- Area footprint of system
- Increased yield of post-PCR product
- Decreased cycle times
- Easy to program
- Able to use multiple plastic ware manufacturer's plates across applications
- Robustly engineered

Width	700mm
Depth	1650mm
Height	1550mm
Power rating	15kW
Product code250-10079 - (415V 3 phase) or (220V single phase USA)	

eGecko²
Automated SBS and Petri dish barcode applicator
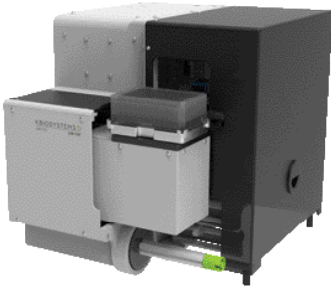
The eGecko² barcode applicator utilises a robust and proven custom designed label printer. The system is a completely integrated printer and application unit in one, requiring only an electrical supply. With easy swap head operation you can apply labels to flat and curved surfaces with one simple change.

Utilising proprietary software, this enables the creation of label position and the ability to run the eGecko² automation simultaneously. Integrated third party software, Bartender, is used to direct drive data to the printer. Alternative data can be used upon request.

Using a fully integrated PC, eGecko² allows you to connect live to your network LIMs system to allow data transfer and validation of application label. Using the on board optional verification mode, you can print and verify all labels to ensure no unreadable labels enter your work flow.

- Fully automated with own PC control
- Individual internal generation of labels
- Works directly with OEM label creation software via application card
- Individual programmable macros stored in PC
- Uses robust and proven label print engines
- Electrical supply only

Width	489mm
Depth	395mm
Height	626mm
Product code	**250-10066**

ValiData
Automated tube barcode applicator

The ValiData label applicator offers the ideal solution to labelling / re-labelling tube racks. ValiData utilises a robust and proven custom designed label printer. The system is a completely integrated printer and application unit in one.

Using a fully integrated PC allows you to connect live to your network LIMs system to allow data transfer and validation of application label. Using the on board optional verification mode you can print and verify all labels to ensure no unreadable labels enter your work flow.

Utilising our rotary Z axis motion we offer ultimate applicator with no need to adjust between plate types and label position simply call the application macro and apply the label. Both capped or open tubes can be processed. Labels are verified using the onboard ccd reader.

- Operator friendly; easy to program
- Able to use multiple plastic ware manufacturers' plates
- Ability to apply to SBS plate types or custom holders
- Average label cycle 12 seconds

Width	1290mm
Depth	640mm
Height	844mm
Product code	**250-10061**

Ordering information

COLONY PICKERS

Description	Product Number
K63 Desktop System with Colony Picking Option (PAGE 12)	**250-10059**
Plate hive	**250-10064-001**
Tray hive 6 location standard unit	**250-10030-006**
Product stack options	
Standard hotel short (non-lidded, includes plate weight)	150-10024-101S
Standard hotel tall (non-lidded, includes plate weight)	150-10024-101T
Standard hotel short (lidded, includes plate weight)	150-10024-102SL
Standard hotel tall (lidded, includes plate weight)	150-10024-102TL
Short hotel black out kit (short stack only)	150-10024-101BKS
Short hotel black out kit (short stack only)	150-10024-101BKT
Hotel plate weight each (additional weight)	1010-28271-169
Product options	
4 plate replication option	150-10059-102
2 plate re-arraying option	150-10059-103
1 plate fluorescent colony picking (GFP)	150-10059-101
HEPA filter enclosure	150-10059-106
Consumable spares	
16 pin picking head	150-10036-001
32 pin arraying/replication head std series	150-10036-003
32 pin arraying/replication head long series	150-10036-004
Petri dish image tray 4 position 8cm dish	150-10036-005
Petri dish image tray 1 position 15cm dish	150-10036-005
Wash bath brushes (each)	2029-10008
Picking pins sharp point ecoli 66mm (** point type)	1010-28094-002**
Picking pins barb point yeast	101-2059051-014
Arraying pin**	Please contact us and state point size
Quiet oil free compressor	8081-10083
Silent oil free compressor	8081-10084
K8 High Throughput Colony Picking System (PAGE 12)	**250-10048**

Ordering information

PCR THERMAL CYCLER AUTOMATED SYSTEMS

Description	Product Number
DT-24 (PAGE 13)	**250-10079 = (415V 3 phase) or (22oV single phase USA)**

BARCODE APPLICATORS

Description	Product Number
eGecko2 (PAGE 14)	**250-10066**
Integration plate for eGecko2	150-10024-216
ValiData (PAGE 14)	Please contact us for ordering information

Notes:

Ultraseal™ heat seals

	Lab Roll (78 mm)	Lab Sheets (125 x 78 mm)	Sterile Roll (78 mm)	Sheets (Sterile)	Lab Roll (115 mm)	Sterile Roll (115 mm)	Notes
Ultraseal™ Clear Seal Peel	SF01078LR	SF01078LS	SF01078SR	SF01078SS	SF01115LR	SF01115SR	Peelable, non-pierceable
Ultraseal™ Cear Seal Weld	SF02078LR	SF02078LS	SF02078SR	SF02078SS	SF02115LR	SF02115SR	Permanent, non-pierceable
Ultraseal™ Clear Seal Pierce (for Abi 3730)	SF03078LR	SF03078LS	SF03078SR	SF03078SS	SF03115LR	SF03115SR	Permanent, pierceable
Ultraseal™ Peel Seal Foil	SF04078LR	SF04078LS	SF04078SR	SF04078SS	SF04115LR	SF04115SR	Peelable, non-pierceable
Ultraseal™ Peel Seal DMSO Foil	SF05078LR	SF05078LS	SF05078SR	SF05078SS	SF05115LR	SF05115SR	Peelable, non-pierceable
Ultraseal™ Pierce Seal Foil	SF06078LR	SF06078LS	SF06078SR	SF06078SS	SF06115LR	SF06115SR	Permanent, pierceable
Ultraseal™ Pierce Seal Foil PS	SF07078LR	SF07078LS	SF07078SR	SF07078SS	SF07115LR	SF07115SR	Peelable, pierceable
Ultraseal™ Therm Seal Foil	SF08078LR	SF08078LS	SF08078SR	SF08078SS	SF08115LR	SF08115SR	Peelable, non-pierceable
Ultraseal™ Gas Perm Seal	SF10078LR	SF10078LS	SF10078SR	SF10078SS	SF10115LR	SF10115SR	Gas permeable, peelable, pierceable
Ultraseal™ Clear Seal Perf	SF11078LR	SF11078LS	SF11078SR	SF11078SS	SF11115LR	SF11115SR	Gas permeable, peelable, non-pierceable
Ultraseal™ Gas Perm Seal 2	SF13078LR	SF13078LS	SF13078SR	SF13078SS	SF13115LR	SF13115SR	Gas permeable, peelable, pierceable
Ultraseal™ Peel Seal Foil Super	SF14078LR	SF14078LS	SF14078SR	SF14078SS	SF14115LR	SF14115SR	Peelable, non-pierceable

Ultraseal™ adhesive seals

	Lab Roll (80 mm)	Lab Sheets	Sterile Roll (80 mm)	Sheets (Sterile)	Notes
Ultraseal™ Adhesive Seal PCR	SF20080LR	SF20080LS	SF20080SR	SF20080SS	Peelable, non-pierceable, transparent film
Ultraseal™ Adhesive Seal qPCR Crystal	SF21080LR	SF21080LS	SF21080SR	SF21080SS	Permanent, non-pierceable, pressure sensitive film, optically clear
Ultraseal™ Adhesive Seal Gq Optic	SF22080LR	SF22080LS	SF22080SR	SF22080SS	Permanent, non-pierceable, adhesive free optically clear windows
Ultraseal™ Adhesive Seal Gas Perm	SF24080LR	SF24080LS	SF24080SR	SF24080SS	Peelable, pierceable, Gas permeable, transparent
Ultraseal™ Adhesive Seal Micro	SF25080LR	SF25080LS	SF25080SR	SF25080SS	Peelable, non-pierceable, transparent film
Ultraseal™ Adhesive Seal DMSO X Film		SF26080LS		SF26080SS	Permanent, pierceable X cut, transparent, CMSO resistant
Ultraseal™ Adhesive Seal Foil PCR	SF27080LR	SF27080LS	SF27080SR	SF27080SS	Peelable, pierceable, opaque foil
Ultraseal™ QuickSeal qPCR Optical 100 Sheets		SF28080LS			Peelable, non-pierceable, optically clear, DMSO resistant
Ultraseal™ Adhesive Seal Foil PCR Ultra	SF29080LR	SF29080LS	SF29080SR	SF29080SS	Peelable, pierceable, opaque foil, high temperature stability
Ultraseal™ Adhesive Seal qPCR Crystal Ultra	SF30080LR	SF30080LS	SF30080SR	SF30080SS	Peelable, non-pierceable, crystal clear film, high temperature stability
Ultraseal™ Adhesive Seal Gas Perm Woven	SF32080LR	SF32080LS	SF32080SR	SF32080SS gas permeable	Peelable, pierceable,

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