Ultraseal PRO

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KBiosystems Sealing Series of automated and semi automated systems offer the ideal entry level automation laboratories require for a reliable, consistent plate and tube closing.



The Ultraseal PRO 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.

Offering complete versatility, the sealer Series 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.

Constant time and pressure lead the way in sealing techniques, KBiosystems developed the first fully automated production sealers way back in 1994 and still are considered the premier application specialist amongst users and integrators alike.

System operation is designed to efficiently apply a heat activated sealing film to a micro well plate or tube rack top surface. By pulling and maintaining control of a reel of film cutting to the desired length and by means of heat and time based variables apply the film to achieve the seal. The unit is both pneumatically and electrically operated and hence will require both supplies to be readily available.

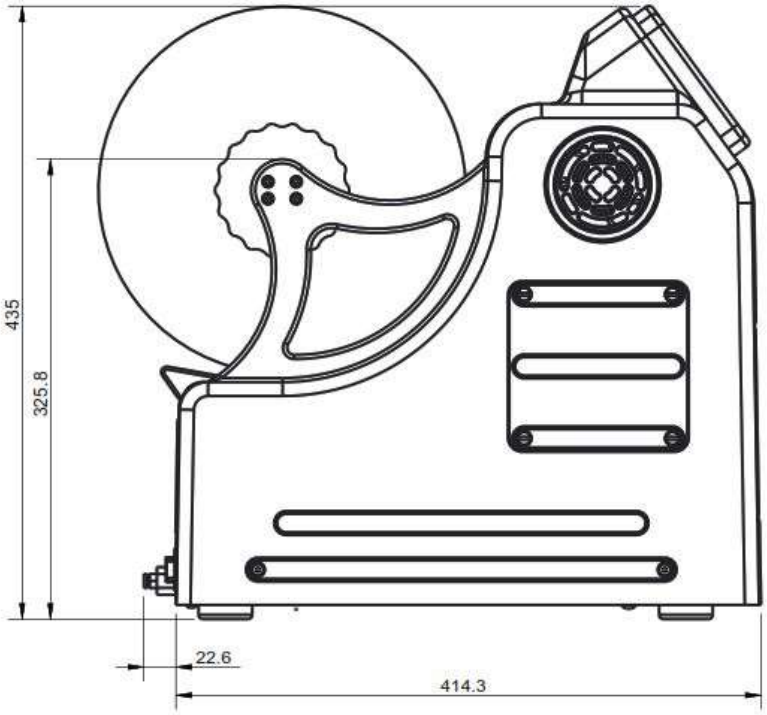
Gas Purge option allows the user to lay a heavy gas coating to the well surface prior to sealing, this will then once sealed offer a protective barrier to the air void often left between sample and seal, with the gas laid prior to sealing an oxygen reduce or virtually oxygen free space environment can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

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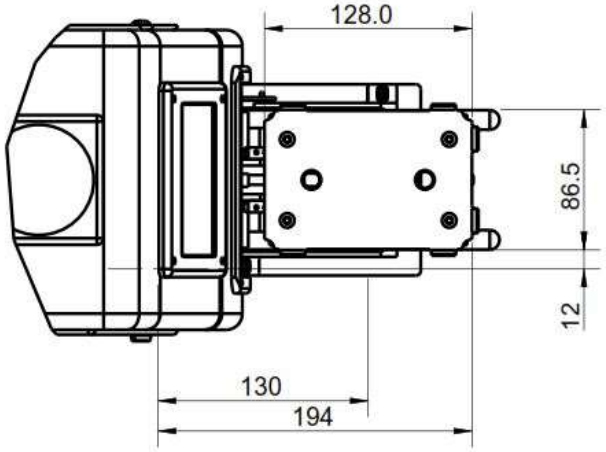
Ultraseal PRO

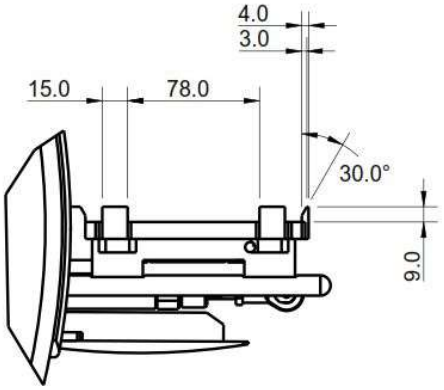
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Dimensions:









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Key Features:

Throughput: 6 to 8 plates per minute

Operator Friendly : Easy to program and operator and integrator friendly

Versatile : Able to use multiple plastic ware manufactures plates across applications.

Reliable : Engineered with robustness in mind

System Requirements:

Electric: The unit can handle both 110 / 220 VAC supplies but must be rated to min 6Amp

Pneumatic: The unit requires a supply rated to min 5.5bar max 6.5bar 50 litres per min.

Weight: Approx. 12 kgs

Dimensions: 630mm L x 192mm W x 435mm H (Inc. film roll)

Comms lead: 3m RS232 (3 wire 2,3 and 5 connection non twisted)

Comms driver: Supplied with KBiosystems communication protocol

Shuttle extension: Offers greater access to plate nest extends + 34mm

Gas Purge: Requires Heavy gas supply 6mm pipe with 0 to 10 PSI control, additional gas safe monitoring will be needed or suitable fume hood.#

	Ultraseal PRO
Heat Sealer ambient to 199°C	√
Foil Seals	√
Optical Seals	√
Gas Permeable seals (option)	√
Automatic cut and apply seals	√
Heavy Gas pre seal application manifold (option)	√
Multi voltage 110/220 VAC supply	√
Integration ready RS232 interface	√
Shuttle extension module for greater access (option)	√
Auto link to Scorpion Stacker	√
Plate height range 7 to 48mm	√