

4s2™ Variable Temperature Thermal Sealer

The 4s2™ is a semi-automatic thermal sealer which is compatible with a wide range of pre-cut heat seals and plates of differing designs and heights. With variable temperature and time settings, sealing conditions are easily optimized for a wide range of microplates and seals. Plate and seal are placed on the holder and once the draw is closed, the sealing process is automatically controlled by an electric mechanism. This unique feature eliminates operator variation, giving a consistent seal every time and reducing the damage caused to microplates by over-sealing.



FEATURES & BENEFITS

- Automatic sealing process for high sealing consistency
- Selectable temperature and time settings for optimum results with a wide range of sealing materials
- Single action operation - closing the draw initiates the process
- Rapid heating element for fast start-up
- Tight temperature control across the heating block (+/- 0.5°C)
- Real time temperature display
- Auto stand-by function to save energy
- Auto switch-off function for added safety
- Works with all plate types
- Full range of Thermal Seals available



Real Time Display

The rapid heating element allows for a quick start-up of the unit within minutes. The temperature of the heating block is displayed in real time so that the heating up process can be monitored.

Energy Saving Functions

When the unit is left idle, it automatically switches into stand-by mode during which the temperature of the heating element is reduced to 60°C to save energy. When the sealer is left idle for longer periods, it switches off automatically for added safety. The times at which the unit switches into stand-by and switch-off modes can be adjusted to suit the users needs.

Plate Formats

The following plate formats can be used with an appropriate holder

- SBS standard polypropylene, polystyrene plates, and deepwell blocks
- PCR plates including skirted, semi-skirted, and non-skirted formats

Technical Data

Weight: 9kg
 Dimensions: H 310 x D275 x W 181mm
 Voltage: 110/230V
 Power: 300W
 Sealing Temp.: 130 - 190°C

Ordering Information

EK-75063	4s2™ Thermal Sealer* (universal power supply, power cord & manual)	\$3,733.00
EK-75015	Adapter for standard 96 well & 384 well plates	<i>included</i>
EK-75002	Seal Platten (to hold down sealing sheets that have a tendency for curling)	<i>included</i>
EK-75025	Adapter for 96 well PCR plates	\$300.00

***For use with pre-cut sheets only**



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Heat Sealing

E&K Scientific offers a wide range of heat sealing and adhesive sealing materials. All seals are certified free from nucleases and human genomic DNA contamination. Please visit our website for more information and a complete guide of sealing solutions.

Compatibility Guide

Abgene Style Heat Seals are compatible with Thermo Fisher ALPS 300™ / ALPS 3000™ / KBiosystems Chameleon™ / KBioscience FlexiSeal and Remp / Tecan Plate Sealer and are 78mm wide rolls.

Velocity11 Style Heat Seals are 115mm wide rolls.

Pre-cut Sheets for Manual Sealers are 125mm x 78mm sheets.

Heat Seal	Description	Temp Range	Applications	Part No.	Quantity	Price
Clear Seal	Clear polymer forming a peelable seal to PP, PE, and PS plates. Good optical clarity. Moderate solvent resistance.	-80°C to 80°C, 120°C w/ pressurised PCR heated lids	QPCR, short term compound storage.	EK-75042 EK-75046 EK-75045	Abgene Style , 500m Velocity11 Style , 350m Pre-cut Sheets , 100	\$580.00 \$620.00 \$60.00
Clear Weld Seal Mark II	Clear polymer film forming a permanent seal to Polypropylene that can not be peeled and is difficult to pierce. Good optical clarity and solvent resistance.	-80°C to 120°C	PCR, especially water bath thermal cyclers, qPCR. Storage and disposal of hazardous materials. Sample inspection. Recommended for use with DMSO.	EK-75056 EK-75057 EK-75044	Abgene Style , 610m Velocity11 Style , 500m Pre-cut Sheets , 100	\$700.00 \$700.00 \$76.00
Clear Seal 3730	Clear polymer. Seals to PP, PS, and PE. Piercable. Good optical clarity, some solvent resistance. Not suitable for peeling.	-80°C to 80°C, 120°C w/ pressurised PCR heated lids	Recommended for use with the ABI 3730 Sequencer as the thinner structure pierces more easily.	EK-75058 EK-75003 EK-75068	Abgene Style , 610m Velocity11 Style , 500m Roll, Perforated Sheets , 1000	\$580.00 \$760.00 \$480.00
Pierce Seal	Heat seal to PP plates that can be easily pierced with a tip. Very good solvent resistance including DMSO. Seals can be applied on top of each other allowing resealing of samples.	-80°C to 120°C	PCR, Compound Storage, Sample Shipping	EK-75030 EK-75034 EK-75031	Abgene Style , 610m Velocity11 Style , 500m Pre-cut Sheets , 100	\$580.00 \$620.00 \$60.00
Peel Seal	Peelable heat seal to PP plates. Can be peeled directly from 80°C freezer. Good barrier to aqueous solutions. Moderate resistance to solvents at room temperature.	-80°C to 120°C	Low Temperature, Compound Storage, Short Term Room Temperature, Compound Storage, PCR	EK-75023 EK-75028 EK-75026	Abgene Style , 600m Velocity11 Style , 500m Pre-cut Sheets , 100	\$580.00 \$620.00 \$60.00
Foil Seal	Heat seal to PP and PS plates that can be pierced with a tip or peeled off by hand. Good solvent resistance including DMSO. Resealing onto existing seal is possible.	-80°C to 120°C	Low Temperature Compound Storage, Short Term Room Temperature Compound Storage, PCR	EK-75037 EK-75041 EK-75010	Abgene Style , 610m Velocity11 Style , 500m Pre-cut Sheets , 100	\$580.00 \$700.00 \$60.00
Thermal Bond	Heavy duty laminate material that seals to PP to give a strong peelable seal. High degree of sample protection. Good solvent resistance including DMSO.	-20°C to 120°C	Long term storage including storage and transportation at low temperatures. PCR, especially water bath cyclers. Storage of organic solvents, acids, and alkalines.	EK-75062 EK-75065 EK-75064	Abgene Style , 500m Velocity11 Style , 300m Pre-cut Sheets , 100	\$1,140.00 \$1,140.00 \$88.00
Gas Permeable Heat Seal	A woven heat seal that is permeable to gasses but providing a barrier to solid contaminants. Permeability rate >4000g/sqm/24h. Pore size up to 35 Microns. Seals to PP and PS plates.	-20°C to 120°C	Cell Culture, Overnight Incubation, Seed and Insect Storage	EK-75066 EK-75067	Abgene Style , 200m Pre-cut Sheets , 100	\$1,140.00 \$100.00
DMSO Resistant Peel Seal	Identical sealing characteristics to Peel Seal but with a high resistance to solvents, even at elevated temperatures.	-80°C to 120°C	Both low temperature and room temperature compound storage with DMSO and other organic solvents.	EK-75085 EK-75086 EK-75087	Abgene Style , 500m Velocity11 Style , 500m Mini-Roll, Perforated Sheets , 100	\$550.00 \$800.00 \$100.00

