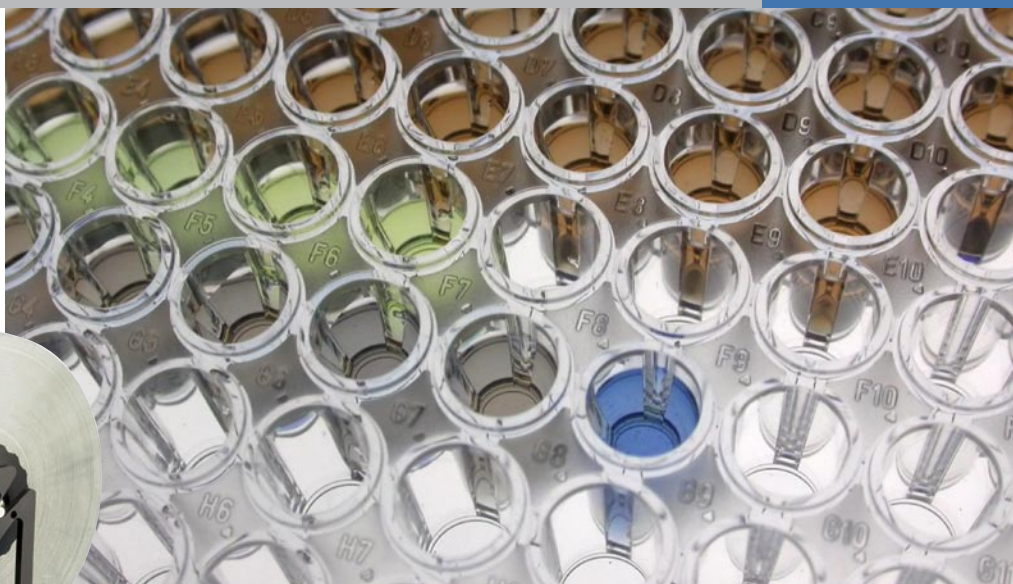


The Thermo Scientific ALPS 3000 Microplate Heat Sealer is a fast, compact heat sealer created for optimal robotic integration in high throughput environments, yet allows manual, benchtop control.

## Thermo Scientific ALPS 3000 Microplate Heat Sealer



**Speed and Ease of Use:** The ALPS 3000 Microplate Heat Sealer has a small footprint (165 mm x 405 mm), taking up less precious bench space. The seals are top-loaded and easily accessible, with rapid plate sealing action (up to 10 plates/minute) in either high throughput robotic applications or benchtop, hand-fed applications

**Safety and Security:** Sensors detecting the presence of sealing tape, plate and air input allow for automatic system shutoff to eliminate product waste, system hold-ups and potential injury.

**Operation Options:** The ALPS 3000 Microplate Heat Sealer comes with both on board touch screen operation for benchtop use and an RS232 port and included programming parameters for robotic integration.

**Knowledgeable Sales Force:** Our sales team has a strong reputation for selling and supporting both equipment and consumables, and can demonstrate the ALPS 3000 Microplate Heat Sealer in your laboratory and determine which seal is best for your application.

## Thermo Scientific ALPS 3000 Microplate Heat Sealer

Weight:	12 kg	Air Requirement:	50 litres per minute
Speed:	Plates sealed and returned to start position in 6 to 12 seconds depending on plate type	Air Input Pressure:	5.5 bar (80 PSI) to 5.7 bar (87 PSI)
Power Supply:	115 - 240 - V AC 50/60Hz	Sealing Temperature Range:	Ambient to 200° C
Dimensions:	185 x 350 x 414mm (W x H x D)	Operating Temperature Range:	15 to 40° C
		Sealing plate height:	8 to 46 mm

### Seals

Name	Description	Compatible Plate material	Sealing Conditions	Seal Integrity Range	Applications
4120: Easy Pierce 20 µM	Thin foil material; easily pierced; peelable bond that can be removed by hand; second seal can be applied over existing seal; recommended for use with DMSO	PP, PE	0.5-2.0 seconds at 165 – 175° C	-80° C to 80° C and up to 120° C with cycler lid pressure	Suitable for PCR (requires pressure from a screw down lid), especially 384 well formats where piercing is a useful method for sample retrieval.
4121: Easy Pierce	Foil material; easily pierced; peelable bond that can be removed by hand; second seal can be applied over existing seal; recommended for use with DMSO	PP, PE	0.5-3.0 seconds at 165 to 175° C	-80° C to 80° C and up to 120° C with cycler lid pressure	Suitable for PCR (requires pressure from a screw down lid), especially 384 well formats where piercing is a useful method for sample retrieval.
4122: Easy Peel	Foil laminate; difficult to pierce; peelable bond that can be easily removed by hand, but forms weld with PE plates; can be removed and new seal applied several times; some solvent resistance and suitable for DMSO use below 4° C	PP, PE, COC	1.5-2.5 seconds at 165 – 170° C	-200° C to 90° C and up to 120° C with cycler pressure	Long term storage at low temperatures (-200° C). Suitable for PCR with screw down heated lid thermal cyclers only.
4123: Clear Seal	Thin polymer material; able to be pierced; peelable seal when layered; good optical clarity; some solvent resistance	PP, PS, PE	1.5 seconds at 170° C	-80° C to 80° C and up to 120° C with cycler pressure on	Ideal for ABI-3730 Sequencer applications. Suitable for PCR applications with screw down or clip down heated lid thermal cyclers only.
4124: Diamond Seal	Thin polymer material; peelable seal; good optical clarity; some solvent resistance	PP, PS, PE, COC	1.5-3.0 seconds at 170° C	-80° C to 120° C	Suitable for PCR with screw down or clip down heated lid thermal cyclers only. Ideal for fluorescence and colourimetric applications such as qPCR.

Item No.	Description	Qty	Approximate No. Plates per Roll
4115	ALPS3000 Microplate Heat Sealer	Each	n/a
4120	Easy Pierce 20 µM, Foil Heat Seal	1 roll/610m	5000
4121	Easy Pierce, Foil Heat Seal	1 roll/610m	5000
4122	Easy Peel, Foil Laminate Heat Seal	1 roll/610m	5000
4123	Clear Seal, Clear Polymer Heat Seal	1 roll/610m	5000
4124	Diamond Seal, Clear Polymer Heat Seal	1 roll/370m	3000

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