

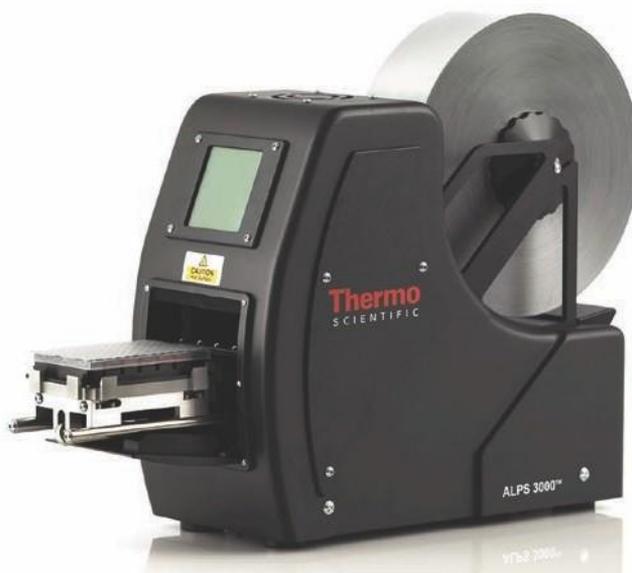
PRODUCT SPECIFICATIONS
Plate Sealing Equipment

ThermoScientific ALPS 3000 Microplate Heat Sealer

Fast, reliable and consistent automated plate sealing solution for any lab.

The ThermoScientific™ ALPS™ 3000 is a fast and compact heat sealer designed to provide heat sealing solutions to labs ranging from low throughput to high capacity automated environments. The ThermoScientific ALPS3000 heat sealer has a compact footprint to conserve precious bench space and top-loaded seals are easily accessible. With automated, pneumatically controlled microplate sealing, seal up to 6 plates per minute in a variety of hand-fed, benchtop or high throughput robotic applications.

Designed with onboard sensors to detect a microplate, heat seal and air inlet pressure the ALPS3000 heat sealer allows for completely autonomous operation while yielding minimal waste. The ALPS3000 semi-automated sealer is equipped with both on-board touch screen operation for bench top use and an RS232 port and included programming parameters for robotic integration.



Features

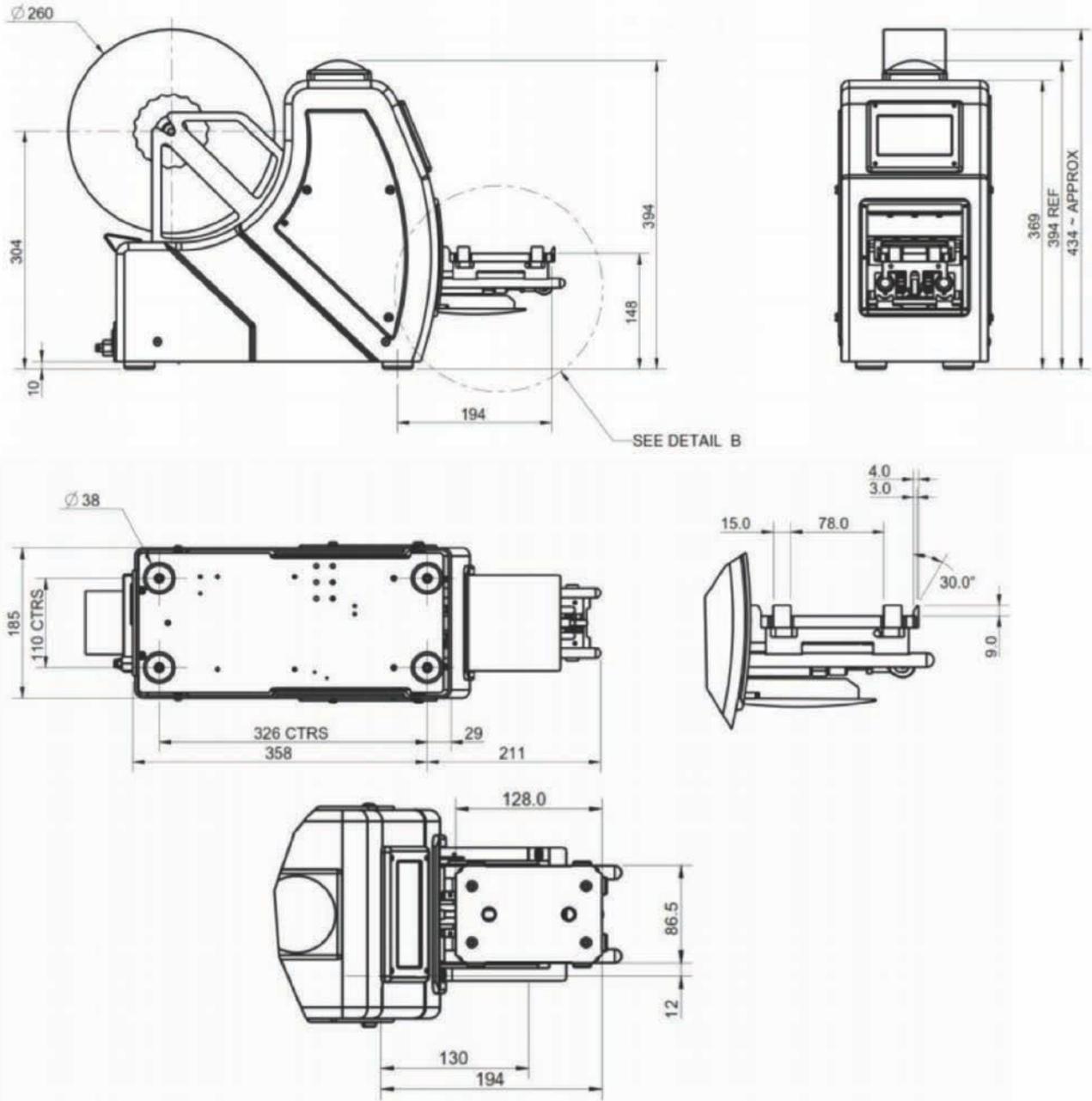
Benefits

Fast Sealing of Multiple Plate Heights

- Increase productivity and throughput sealing up to 6 plates per minute
- Seal plates from 8mm to 46mm in height with no adapters required
- Compatible with high throughput automated applications

Programmable Time and Temperature Control

- Temperature adjustment up to 200°C in increments of 1°C allow for precise control
- Programmable timer up to 4 seconds in increments of 0.1 seconds for a range of applications



Thermo Scientific ALPS 3000 Specifications

Dimension	185 mm x 414 mm x 350 mm
Weight	12kg
Speed	10 to 12 seconds per plate
Power Supply	110-240 V AC, 50-60 Hz
Air Requirement	50 liters per minute
Air Input Pressure	5.5 bar (80PSI) to 5.7 bar (87PSI)
Sealing Temperature Range	Ambient to 200 °C
Operating Temperature Range	15 °C to 40 °C
Sealing Plate Height	8 to 46mm

Purchasing Information for ALPS 3000

Catalog No.	Description	Qty.
AB-3000	ALPS3000	1 Each
AB9-067	Replacement Support Plates	1 Each

Seals

Cat. No.	Description	Characteristics	Compatible Plate Material	Sealing Conditions	Seal Integrity Range	Applications
AB-3559	Thermo-Seal	Foillaminate; very strong seal that can only be peeled using the Foil Stripper (see ordering information below); can be pierced with a single pipette tip or Pierce Plate (see ordering information below); good solvent resistance; recommended for use with DMSO	PP	1.5 to 2.5 seconds at 165 °C to 170 °C	-80 °C to 120 °C	Long term storage including storage at low temperatures; transportation and high temperature applications such as PCR, including use in waterbath thermal cyclers
AB-3738	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 to 3.0 seconds at 165 °C to 175 °C	-80 °C to 80 °C and up to 120 °C with cycler lid pressure	Well suited for 384-well formats where piercing is a useful method for sample retrieval; second seal can be applied over existing seal; suitable for PCR with screw-down lid
AB-3720	Easy Pierce 20µm	Thin foil material; easily pierced; peelable bond that can be removed by hand; good solvent resistance; recommended for use with DMSO	PP, PE	0.5 to 2.0 seconds at 165 °C to 175 °C	-80 °C to 80 °C and up to 120 °C with cycler lid pressure	Well suited for 384-well formats where piercing is a useful method for sample retrieval; suitable for PCR with screw-down lid
AB-3739	Easy Peel	Foillaminate; 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 to 2.5 seconds at 165 °C to 170 °C	-200 °C to 90 °C and up to 120 °C with cycler pressure	Ideal for long term storage at low temperatures; seal can be applied, removed and a new seal applied several times; suitable for PCR with screw-down heated lid thermal cyclers only

Seals						
Cat. No.	Description	Characteristics	Compatible Plate Material	Sealing Conditions	Seal Integrity Range	Applications
AB-3797	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 cyclers pressure	Suitable for fluorescence and colorimetric applications; suitable for PCR applications with screw-down or clip-down heated lid thermal cyclers only
AB-3799	Clear Seal Diamon	Thin polymer material; peelable seal; good optical clarity; some solvent resistance	PP, PS, PE, COC	1.5 to 3.0 seconds at 170 °C	-80 °C to 120 °C	Ideal for fluorescence and colorimetric applications; suitable for PCR applications with screw-down or clip-down heated lid thermal cyclers only

Plate Sealing Settings Guide		
Plate Material	Temperature Setting	Time Setting
Polypropylene	150°C - 175°C	3 Secs - 5 Secs
Polystyrene	145°C - 165°C	3 Secs - 5 Secs
Polyethylene	150°C - 170°C	3 Secs - 5 Secs

ThermoFisher
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000 «Диаэм»

Москва
ул. Магаданская, д. 7, к. 3 ■ тел./факс: (495) 745-0508 ■ sales@dia-m.ru

www.dia-m.ru

С.-Петербург
+7 (812) 372-6040
spb@dia-m.ru

Новосибирск
+7 (383) 328-0048
nsk@dia-m.ru

Воронеж
+7 (473) 232-4412
vrn@dia-m.ru

Йошкар-Ола
+7 (927) 880-3676
nba@dia-m.ru

Красноярск
+7 (923) 303-0152
krsk@dia-m.ru

Казань
+7 (843) 210-2080
kazan@dia-m.ru

Ростов-на-Дону
+7 (863) 303-5500
rnd@dia-m.ru

Екатеринбург
+7 (912) 658-7606
ekb@dia-m.ru

Кемерово
+7 (923) 158-6753
kemerovo@dia-m.ru

Армения
+7 (094) 01-0173
armenia@dia-m.ru

