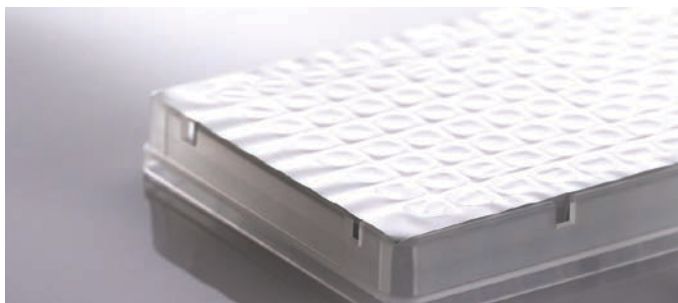


Thermo Scientific ALPS 50V Microplate Heat Sealer

The perfect entry level solution for fast and reliable semi-automated plate sealing.

With the semiautomated Thermo Scientific ALPS 50 V microplate heat sealer, secure tight seals around individual wells to eliminate sample loss through evaporation and cross contamination between wells. Choose from a wide range of heat seals, including piercable, optically clear and permanent, for any application. Simple on-board touch pad controls adjust sealing temperature and time. Coupled with an audible alarm indicating sealing completion, the ALPS 50 V sealer provides optimal sealing control and ensures consistency. The counter lever handle design provides minimal strain when operating the instrument. Additionally, the ALPS 50 V sealer weighs only 7.2 kg (15.9 lbs) for ease of placement and relocation. Our team has a strong reputation for supporting both equipment and consumables, and can demonstrate the ALPS 50 V sealer in your laboratory, as well as determine which seal is best for your application. Included programming parameters for robotic integration.



Features	Benefits
Ergonomic Design	<ul style="list-style-type: none"> • Counter lever handle design provides minimal strain when operating • Only 15.9lbs. for ease of placement throughout the lab • Compatible with high throughput automated applications
Application Flexibility	<ul style="list-style-type: none"> • Temperature adjustment up to 200°C in increments of 1°C allow for precise control • Programmable timer from 1 to 9 seconds in increments of 0.5 seconds for a range of applications • Wide range of heats seals including pierceable, optically clear and permanent for any application

Thermo Scientific ALPS 3000 Specifications

Dimension	220 cm x 321 cm x 425 cm
Weight	15.9 lbs/ 7.2 kg
Temperature Set Point Range	125 °C to 200 °C in 1 °C increments
Time Set Point Range	1 to 9 seconds in 0.5 second increments
Operating Humidity Range	20-80% non-condensing
Operating Temperature Range	18 °C to 30 °C
Applicable Standards	FCC Class A, CFR 47 Part 15 BS EN 61326:1998
Power Supply	100-130 V AC, 50-60 Hz or 220-240 V AC, 50-60 Hz
Fuse	350 W
Power Rating	100-130 V – T3.15A (IEC 127) or 220-240V – T1.6A (IEC 127)
Mains Input Connector	IEC 320

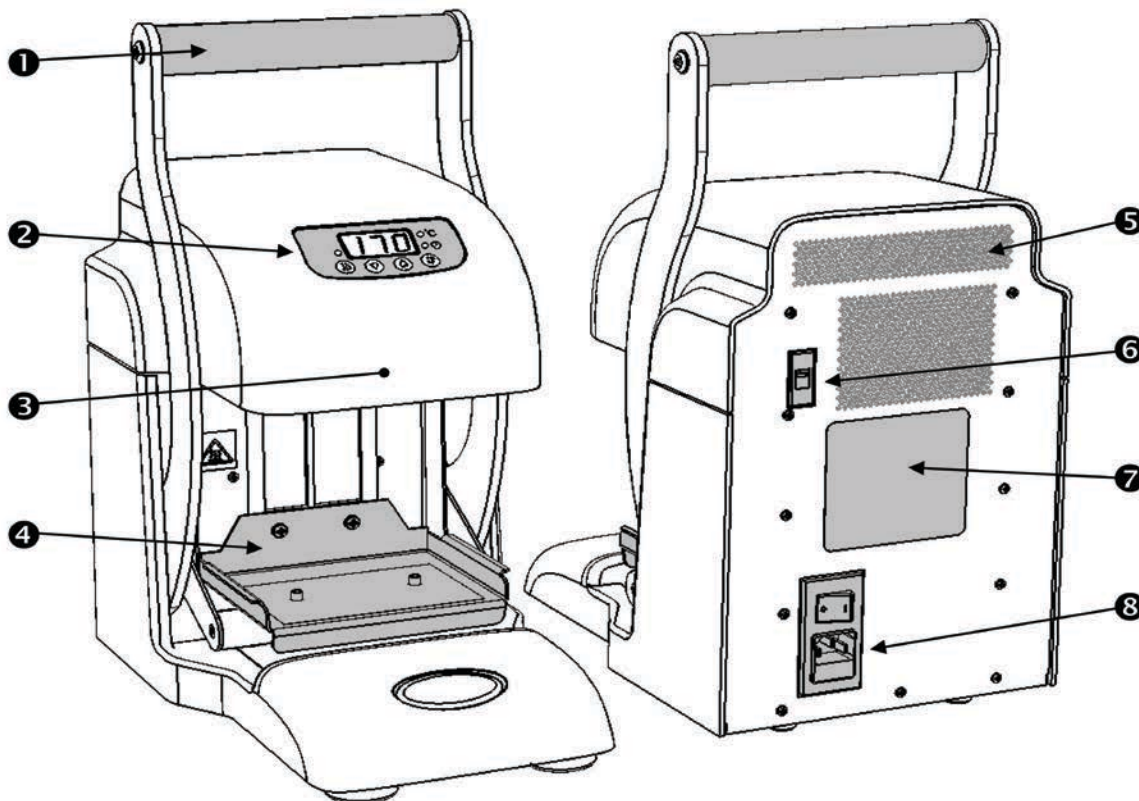
Purchasing Information for ALPS 50V

Catalog No.	Description	Qty.
AB-1443A	ALPS 50V	1 Each

Seals						
Cat. No.	Description	Characteristics	Compatible Plate Material	Sealing Conditions	Seal Integrity Range	Applications
AB-0559	Thermo-Seal	Foil laminate; 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-0757	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 cyclers 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-1720	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 cyclers 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-0745	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 to 2.5 seconds at 165 °C to 170 °C	-200 °C to 90 °C and up to 120 °C with cyclers 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
AB-1797	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-0812	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
AB-0685	Clear Seal Strong	Clear laminate; weld seal that cannot be peeled or pierced; good optical clarity and solvent resistance; recommended for use with DMSO; clear for sample inspection	PP	1.5 to 2.0 seconds at 170 °C	-80 °C to 120 °C	Clear for sample inspection; due to strong unpeelable seal properties, it is suitable for storage and disposal of hazardous material; also suitable for PCR applications

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



Unit Features

1	Seal Activation Handle
2	User Interface Display and Control Buttons
3	Heater Plate (Internal)
4	Adaptor Plate Carrier
5	Rear Ventilation Holes
6	Mains Voltage Selector
7	Product Information Label
8	Power Inlet, On/Off Switch and Fuse Holder

In the United States:

For customer service, call 1-800-766-7000
 To fax an order, use 1-800-926-1166
 To order online: thermofisher.com

In Canada:

For customer service, call 1-800-234-7437
 To fax an order, use 1-800-463-2996
 To order online: thermofisher.ca

Find out more at thermofisher.com/samplestorage

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