ACCURIS INSTRUMENTS

MIDSCI™ Laboratory Equipment & Supplies

SMARTSEAL PRO™

Fast, Consistent
Automated Thermal Plate Sealing



- **Fast, reproducible sealing in less than 20 seconds**
- **Accepts a wide range of plate types and heights**
- **Built-in air source - no external compressed air required**
- **Precise temperature control**
- **Intuitive, 7-inch color touch screen**
- **Automated roll-fed film**

APPLICATIONS



qPCR
Fluorescence
Colorimetry



Reagent
storage

WORKFLOWS



Manual



Automated

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Streamlined Thermal Sealing Workflow.

Simple steps for reliable, consistent seals

The Accuris SmartSeal Pro microplate sealer simplifies your workflow with an intuitive process and automated operation, providing a consistent, high-quality seal every time.



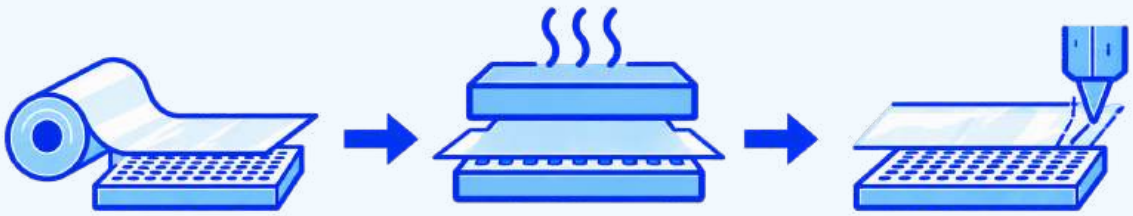
Set Parameters
Select sealing temperature & time on the touchscreen.

Start Cycle
Initiate the sealing cycle from the touchscreen.

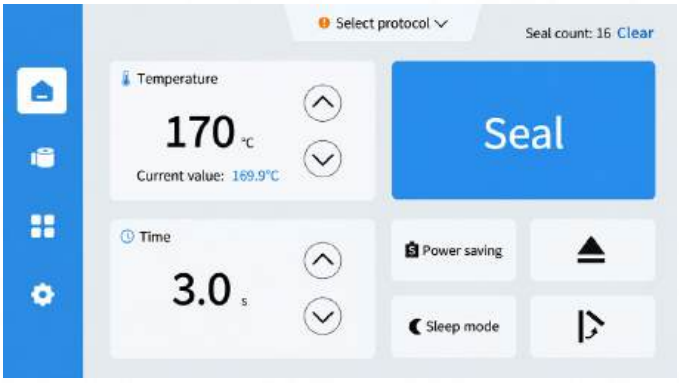
Automated Sealing
The system controls temperature, time, and pressure.

Retrieve Plate
Remove the sealed plate when the cycle is complete.

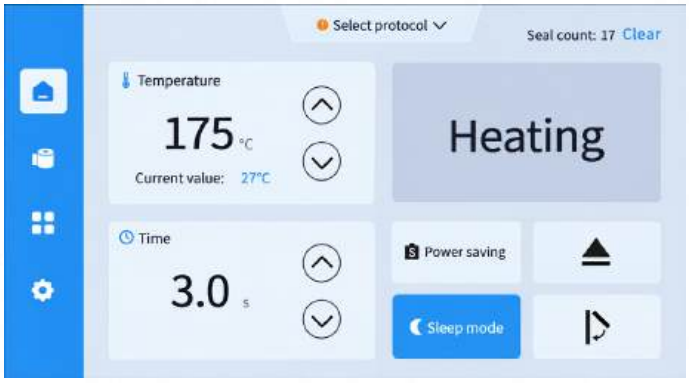
3 Automated Thermal Sealing: Pull · Seal · Cut



Pull Foil Over the Plate | **Seal the Plate** | **Cut the Film**



Configure the sealing parameters and initiate the cycle.



Monitor the automated sealing cycle in real time.

Different Thermal Seals
for Different Applications

Three roll-fed materials.
One seamless sealing platform.



Easy-Peel Heat Seal

85 µm

Durable barrier with clean, convenient removal.

80 mm width
Reagent storage
Deep-well plates
Low-temperature workflows

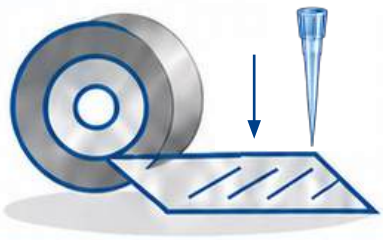


Pierceable Heat Seal

35 µm

Direct pipette tip-access without manual seal removal.

80 mm width
High-throughput access
Routine storage

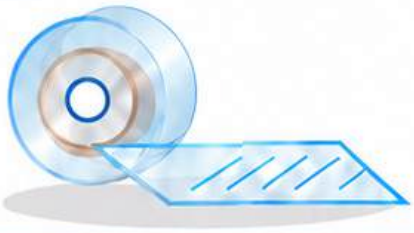


Clear qPCR Heat Seal

50 µm

Clear polymer film for optical and fluorescence workflows.

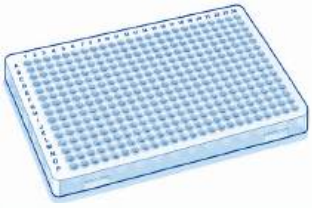
80 mm width
PCR/qPCR
Fluorescence
Colorimetric applications



Broad Seal Compatibility.



96-well plates



384-well plates



Deep-well plates

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ACCURIS INSTRUMENTS

SMARTSEAL PRO™

Broad compatibility. Precise control.

Designed for ANSI/SBS-format labware and roll-fed thermal sealing materials across routine benchtop and automated workflows.

Plate Compatibility

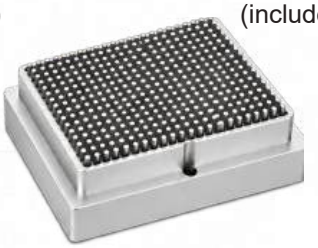
- ANSI/SBS standard plates, 3-62 mm height range
- Standard microplates, deep-well plates, and PCR plates
- Sealing films are compatible with polypropylene plates.
- Adapters used for selected plate formats and heights:
  - Deep-well and 96-well PCR adapters included
  - Optional 384-well PCR adapter available



96-well PCR adapter (included)



Deep-well plate adapter (included)



384-well PCR adapter (optional)

Technical specifications

Specifications	Value
Supported plates	ANSI/SBS standard; 3-62 mm height
Supported roll width	78-84 mm
Temperature range	25-200 ºC
Temperature accuracy	±1 ºC
Temperature increment	1 ºC
Preheat time	≤5 seconds
Cycle time	<20 seconds/plate
Sealing time	0.5-9.9 seconds; 0.1 second increment
Air source	Built-in
Display	7-inch color touchscreen
Connections	USB, Ethernet (API available)
Power input	AC100-240 VAC, 50/60 Hz
Maximum power	300 W
Dimensions (LxWxH)	14.2x8.7x18 in. 36x22x45.7 cm
Weight	16 kg/35.2lb

Ordering information

Catalog No.	Description
MS2000	SmartSeal Pro Automated Thermal Plate Sealer, 115 V
MS2000-E	SmartSeal Pro Automated Thermal Plate Sealer, 230 V
MS2000-A-384	Adapter for 384-well PCR plates
MS2035-200-FP	Foil Heat Seal, Pierceable, Cold Storage Compatible, 35 µm, 200 m
MS2085-200-FEP	Foil Heat Seal, Easy Peel, Cold Storage Compatible, 85 µm, 200 m
MS2050-200-QPCR	Clear Heat Seal for qPCR, 50 µm, 200 m

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