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Semi-Automated Sheet Heat Sealer (formerly IntelliXseal™ SA)



59-2000 | Semi-Automated Sheet Heat Sealer (formerly IntelliXseal SA) | Side | Holder & Plate Detail

Semi-automated sheet heat sealer compatible with a wide range of seals and microplates, PCR and assay plates, as well as storage plates of differing designs and heights

Overview

With variable temperature and time settings, sealing conditions are easily optimized to produce a 100% seal, eliminating sample loss. Plate and seal are placed on the holder, the "Operate" button pressed and the drawer automatically closes. The sealing process is 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.

Key Features

- **Real Time Display**
 - Rapid heating element to allow for a quick start up within minutes
 - Real time temperature display to allow monitoring of heating process
- **Energy Saving Functions**
 - When idle, unit automatically switches to standby mode: heating element temperature reduces to 60°C to save energy
 - When idle for longer periods, it automatically switches off for added safety
 - Triggering of standby and switch off modes can be adjusted to suit user's needs
- **Plate Adapters & Sealing Aids**
 - Triggering of standby and switch off modes can be adjusted to suit user's needs
 - Unique and cost saving adapter system

- Included standard plate carrier (59-2001) for sealing deep well plates and most skirted plates
- Additional plate carrier (59-2003, optional extra) for all 96 well PCR plates
- Both plate carriers can be combined for easier handling of shallow well plates, e.g. 384 well PCR plates
- For better sealing of films with a tendency to curl, Azenta Life Sciences offers sealing aids
- A weighted platen (59-2008) for use with deep well blocks can be ordered separately
- A sealing frame for use with all other plate designs is supplied when ordering the optional 59-2009 adapter
- The sealer allows for sealing of Individual Access Plates with the corresponding Individual Access Heat Seals using the Individual Access adapter (59-2005)
- **Plate Formats**
 - SBS standard polypropylene and polystyrene plates and deep well blocks
 - PCR plates including skirted, semi-skirted and non-skirted formats
 - Individual Access PCR Plates
- **RS-232 Port for Automation Integration**
 - RS-232 port enables unit integration into most automated systems

Specifications

Parameter	Semi-Automated Sheet Heat Sealer
Dimensions (W x L x H)	181 x 275 x 310mm
Sealing temperature range	60-200°C
Weight	9kg
Voltage	110/230V
Power	300W (max)

Sealing Parameters

Technical data and parameters for heat sealing laboratory plates with the Semi-Automated Sheet Heat Sealer

Product name/code	Temperature & dwell time for		
	96 well PCR plates	384 well PCR plates	Vision Plates™ (COC plates)
Clear Heat Seal/4ti-0541	175-185 °C, 2-3 sec	165-180 °C, 3 sec	185-200 °C, 3 sec

Clear Weld Heat Seal/4ti-0575	175-185 °C, 2-3 sec	170-175 °C, 2-3 sec	-
Clear Heat Seal Plus/4ti-05481	175-185 °C, 2-3 sec	165-180 °C, 3 sec	185-200 °C, 3 sec
Clear Heat Seal Easily Pierceable/4ti-0581	165-175 °C, 3 sec	165-175 °C, 2 sec	175-185 °C, 2-3 sec
Peel Heat Seal/4ti-0521	175-185 °C, 3 sec	170-175 °C, 2-3 sec	-
Universal Peel Heat Seal/4ti- 05231	175 °C, 2 sec	175 °C, 2 sec	180 °C, 2 sec
DMSO Resistant Peel Heat Seal/4ti-0587	175-185 °C, 3 sec	170-175 °C, 2-3 sec	-
Pierce Heat Seal/4ti-0531	160-175 °C, 2 sec	160-175 °C, 2 sec	185-200 °C, 3 sec
Pierce Heat Seal Strong/4ti- 05381	170-180 °C, 2 sec	170-180 °C, 2 sec	180-200 °C, 3 sec
Individual Access Pierce Heat Seal Strong/4ti-05381/RA	170-180 °C, 2 sec	170-180 °C, 2 sec	180-200 °C, 3 sec
Foil Heat Seal/4ti-0536	165-180 °C, 2 sec	165-175 °C, 2-3 sec	185-200 °C, 3 sec
Polystyrene Foil Heat Seal/4ti- 0547	165-180 °C, 2 sec	165-175 °C, 2-3 sec	185-200 °C, 3 sec
Thermal Bond Heat Seal/4ti- 0591	170-180 °C, 2-3 sec	160-170 °C, 2 sec	-
Gas Permeable Heat Seal/4ti- 0597	170 °C, 2 sec	170 °C, 2 sec	170 °C, 2 sec
Clear Heat Seal, Peelable Film/4ti-0541/SLIT	175-185 °C, 2-3 sec	165-180 °C, 3 sec	185-200 °C, 3 sec

Ordering Information

Use these part numbers to request a quote, a demo or to contact an expert:

Part number	Description
Semi-Automated Sheet Heat Sealer Semi-automatic sheet heat sealer compatible with a wide range of seals and microplates, PCR and assay plates, as well as storage plates of differing designs and heights	
59-2000 BUY ONLINE*	Includes: universal power supply, power cord, manual, standard plate support adapter (59-2001), 12 month parts and labor warranty; 1 unit

Adapters and accessories

59-2008	Weighted Sealing Platen; for holding down sealing sheets that have a tendency to curl; 1 platen
59-2009	Sealing Frame; for use with Plate Support Adapter, PCR 96 (59-2003); 1 frame
59-2005	Plate Support Adapter, Individual Access; for Individual Access seals; 1 adapter
59-2001**	Plate Support Adapter, Standard; for skirted 96 and 384 well plates; 1 adapter
59-2002	Plate Support Adapter, Roche 1536; for Roche 1536 well PCR plates; 1 adapter
59-2006	Plate Support Adapter, Storage 96 and 384; for 96 and 384 well storage plates; 1 adapter
59-2004	Plate Support Adapter, PCR 384; for 384 well PCR plates; 1 adapter
59-2007	Plate Support Adapter, PCR 96 MPL; for 4ti-LB0109 and 96 well PCR plates; 1 adapter
59-2003	Plate Support Adapter, PCR 96; for 96 well PCR plates; 1 adapter

*Online availability to US only

**These items are included with the Semi-Automated Sheet Heat Sealer (product code code 59-2000)

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