PS-200 Semi-automatic Thermal Sealer

Micro-plate Instruments

Introduction

The PS-200 Semi-automatic Thermal Sealer is designed to prevent evaporation and leakage from microplates, including PCR plates, deep-well storage plates and microplates with cover plates. It uses specialised heat-sealing technology to minimise sample loss and prevent cross-contamination. It is an essential accessory for PCR instruments and quantitative PCR applications.

Features

1. Compact design with a small footprint and simple operation.
2. OLED display with high brightness, a long service life and low energy consumption.
3. Adjustable sealing temperature from 80–200°C, with rapid heating to 170°C in approximately 300 seconds and fan-assisted cooling.
4. Adjustable sealing pressure to accommodate different microplates and sealing films.
5. Microprocessor-controlled temperature regulation ensures accurate and consistent sealing results.
6. Adjustable temperature and time settings, with precise increments of 1.0°C and 0.1 seconds, respectively.
7. Advanced ceramic plate-heating technology prevents sealing film adhesion caused by excessive temperatures.
8. Viewing windows on both sides of the unit allow easy cleaning and extend the heating plate's service life.
9. Automatically switches to standby mode after 60 minutes of inactivity, reducing the heating element temperature to 60°C to save energy.
10. Automatically switches off the display and heating after 120 minutes of inactivity for added safety. The unit can be restarted by pressing any button.
11. Motorised drawer with automatic reverse operation if an obstruction is detected during closing, helping to prevent injury and sample damage.
12. Anti-misoperation function: press "OPEN" twice to immediately stop the instrument while it is operating.



Accessories



Copper sheet for fixing film
optional when sealing film



Block for microplate(1)



Block for 96-well PCR plate



Block for microplate(2)

Parameters

Model	PS-200
Temp. Range	80℃ ~200℃, (increment: 1℃)
Temp. Display Accuracy	±1℃
Temp. Uniformity	±1℃
Sealing Time Range	0.5 ~10sec.（increment: 0.1sec）
Sealing Pressure Range	1 ~5grade
Compatible Plate Material	PP (Polypropylene) / PS (Polystyrene) / PE (Polyethylene)
Compatible Plate Types	standard microplates: PCR plate(skirted, semi-skirted, non-skirted), deep-well plate, ELISA plate.
Sealing Plate Height	9mm ~48mm
Compatible Sealing Plate Film	1.foil polypropylene material
	2.transparent polyester fiber - polypropylene material
	3.transparent polymer material
	4.thin layer transparent polymer material
	5.foil material
Front Panel Material	fireproof ABS
Sealing Plate Materi	Ceramics
al Voltage	AC 220V / AC 110V switchable, 50/60Hz
Power	300W
Fuse	250V, 8A, Φ5 x 20
Dimension	W.180 x D.350 x H.380mm
Net Weight	12kgs

