

# MICROPLATE SEALERS



# MICROPLATE SEALERS

The plate seals are used for sealing the microplates and other PCR plates during the process of thermal cycler, nucleic acid extraction, and PCR. These are used to reduce the evaporation of samples to have minimal sample loss and high efficacy. Two sealing film layers are placed between two seal jaws which are clamped together due to the impulse of an electrical current on heating elements present in the jaws. The heat passes through film layers creating a weld and then it is kept to cool down and stabilize back to its normal properties.

Also known as Plate Sealer, Heat Sealer.

## LTHMG8-1 MICROPLATE SEALER

Easy to switch the cap opening module, one equipment can be achieved 96holes rack or 100 holes rack cap opening and closing operation.

Quick to switch the cap hat and suitable for all kinds of brand sample tube cap opening and closing.

Built-in integration with intelligence sensor which can be identified different volume sample tube .

It not only can be independent operation but also can be together with other liquid workstation and robotic arm comprise a automatic system.

Drawer type inlets and outlets for avoiding sample contamination.

Touch screen control panel One-button operation provide the user with direct and convenient operation feeling.



## SPECIFICATIONS

Model	LTHMG8-1
Rack type available	96 or 100 Holes
Screen	Touch Screen control panel
Sensor	Built-in integration with intelligence sensor

## LTHMG8-2 PLATE SEALER

One-button start

Simple and fast operation

Safe and labor-saving

Capping/sealing speed  $\leq 4s$



## SPECIFICATIONS

Model	LTHMG8-2
Throughput	8-96, suitable for 8-strip PCR tubes and 96-well PCR plates
Start Method	Button
Speed	Capping\sealing speed $\leq$ 4s
Function	8-strip PCR tubes capping, 96-well PCR plate capping, PCR plate sealing film
Adapter	2 types, 8-strip PCR tubes and 96-well PCR plates, can be customized
Pressure	Peak pressure: 300kg
External Size	277x194x230 mm
Package Size	300x260x340 mm
Weight	Net Weight- 9.2kg Gross Weight- 12kg
Power Supply	100-240V 50/60Hz

## LTHMG8-3 MICROPLATE SEALER

Fully automatic and one key operation, no need of additional manual operation

Adapts to varieties of plate types

Adjustable sealing pressure

A variety of communication interfaces are reserved, which can be quickly connected to other machines

Each roll of film can seal more than 350 plates(reference quantity)



## SPECIFICATIONS

Model	LTHMG8-3
Positions	1pc
Method	Cold Seal
Speed	<16s/plate
Operating Mode	Manual plate change, automatic sealing
Application	PCR plate, deep well plate and micro-plate conforming to SBS standard(Customizable)
Control Mode	Buttons
Interface	USB
External Size	310x380x410 mm
Package Size	454x382x464 mm
Weight	Net Weight- 16.5kg Gross Weight- 20.5kg
75 W	Power Supply

# LTHMG13 AUTOMATED SAMPLE PROCESSING SYSTEM

**Safety:** Automated Sample Processing System is equipped with high-efficiency filter and built-in UV lamp, and it can be used with a biological safety cabinet, to effectively prevent aerosol pollution

**Efficient:** Cooperative processing with dual robotic arms

**Convenient:** Visual interface operation, easy to operate

**Compatibility:** Compatible with a variety of pipette tips, deep well plates, sampling tubes.(including blood collection tubes) specifications

**Smart:** One-key operation, smart dispensation



## SPECIFICATIONS

Model	LTHMG13-1	LTHMG13-2
Throughput	1-32	1-48
Processing Time	32 samples/10min	48 samples/16min
Sample Type	Plasma, serum, whole blood,swab solution and other samples	
Sample Rack	1Pcs,3x12 with locking device (compatible with a variety of sampling tubes)	1Pcs,6x8 with locking device(compatible with a variety of sampling tubes)
Robot Arm	1 pcs (Dispensation arm )	2 pcs (Dispensation arm and Screw cap arm)
Plate Position	2 pcs(Compatible with I-shaped and square boards)	3 pcs (Compatible with multi-specification deep-well plates)
Tip Position	3 pcs (Including tip waste box position)	
Reagent Rack	1 pcs (4x2ml centrifuge tube+4x2ml freezing tube+4x5ml freezing tube)	
Protective Function	Can be used in a biological safety cabinet External droplet catch tray design With air-tight and anti-drip design	
Liquid Detection	Pneumatic liquid level detection principle, intelligent detection of blocked needle	
Pipetting Volume	5-100μl(1000/50μl Tip)	
Pipetting Accuracy	10μl, CV≤1.5%,Accuracy≤6.0%,50μl Tip 50μl, CV≤1.0%,Accuracy≤2.0%,1000μlTip 100μl, CV≤0.5%,Accuracy≤2.0%,1000μl Tip	-
External Size	540x637x1113 mm	827x794x1223 mm
Package Size	670x810x1314mm	Main instrument:925x925x817 mm Base cabinet:1030x995x1045 mm
Weight	Net Weight-56Kg Gross Weight-76kg	Net Weight- 100kg Gross Weight-Main instrument:115kg Base cabinet:105kg
Power Supply	220V,50/60Hz;110V,60Hz	
Pipetting Accuracy	-	10μl, CV≤1.5%,Accuracy≤6.0%,50μl Tip 50μl, CV≤1.0%,Accuracy≤2.0%,1000μlTip 100μl, CV≤0.5%,Accuracy≤2.0%,1000μl Tip



LTHMG13-1



LTHMG13-2

## LTHMG13-3 AUTOMATED SAMPLE PROCESSING SYSTEM

**Safety:** Equipped with double independent, specific anti aerosol cross contamination device, high efficiency ultraviolet disinfection module, external liquid trap tray

**Efficient:** 96 samples were processed within 20 minutes, with double manipulator, double sample addition and double screw cover channel

**Convenient:** 10.1-inch HD touch screen, user-friendly operation interface, one-click software operation, quick mastery; Pull-out scrap TIP storage box design, more convenient cleaning.

**Compatibility:** Compatible with a variety of pipette tips, deep well plates, sampling tubes. (including blood collection tubes) specifications

**Smart:** One-key operation, smart dispensation



### SPECIFICATIONS

Model	LTHMG13-3
Throughput	1-96
Processing Time	96 samples/20min
Sample Type	Plasma, serum, whole blood, swab solution and other samples
Sample Rack	1pc (compatible with a variety of sampling tubes)
Robot Arm	2pcs (Dispensation arm and Screw cap arm)
Clamping Arm	2pcs, Independence Movement
Pipetting Method	Specific mechanical pipetting fluids
Plate Position	3 pcs (Compatible with multi-specification deep-well plates)
Tip Position	3 pcs (Including tip waste box position)
Reagent Rack	Yes, 4x4 reagent carrier, can hold bullet cryotube
Protective Function	Can be used in a biological safety cabinet External droplet catch tray design With air-tight and anti-drip design
Liquid Detection	Pneumatic liquid level detection principle, intelligent detection of blocked needle
Pipetting Volume	5-1000ul
Pipetting Accuracy	20ul, CV≤2%, Accuracy≤5.0%, 50ul Tip 1000ul, CV≤0.5%, Accuracy≤1.0%, 1000ul Tip
External Size	1180x680x760 mm
Package Size	Main instrument: 1293x793x970 mm Accessory 1: 645x185x440 mm Accessory 2: 645x185x440 mm
Weight	Net Weight-105 kg Gross Weight-Main instrument: 156kg Accessory 1: 6.1kg Accessory 2: 4kg
Power	350 W
Power Supply	Standard: 220V 50/60Hz; optional: 110V 50/60Hz

# LTHMG8-4 MICROPLATE SEALER

4.3-inch touch screen, easy to operate

Real-time observation of the operating state of the instrument, can be used as a single machine

Customize the sealing temperature as required

Complete the whole process automatically, with stable results and good repeatability

Suitable for a variety of heat sealing films

Multifunctional limit column to prevent heat seal film offset

With emergency stop function and standby function



## SPECIFICATIONS

Model	LTHMG8-4
Temp. Range	RT~210°C
Temp. Precision	±1°C
Heating Rate	Heat to 170°C in 240 seconds
Cooling Keep	When sealing the film, the heating body drops temperature :≤3°C, and rises to the preset temperature within 20s.
Sealing Membrane Time	0.1~15 s
Film Sealing Time Accuracy	0.1 s
Pressure Level	1~5 level can be set, multi-level adjustable
Plate Type	Deep well plate, PCR plate, ELISA plate, etc. Standard: PCR plate adapter Optional: ELISA plate adapter, 384 well plate adapter
External Size	325x176x262 mm
Package Size	530x230x290 mm
Net/Gross Weight	10.5/11.5kg
Consumption	400 W
Power Supply	Standard: 220V 50/60Hz Optional: 110V 50/60Hz



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