

# INCUBATOR SHAKER



# INCUBATOR SHAKER

In Incubator Shaker, the constant agitation with uniform amplitude provides the optimum oxygen transfer to the cultures, leading to better and consistent yield. A variety of platforms and different laboratory accessories permits configuration to fulfill your demands.

Used in Cell Cultures, Cell Aeration, Microbiology, Increasing Solubility Rates, Metabolism Studies, Bacterial Cultures, Bacteriology.

Also known as Laboratory Incubator Shaker, Incubator Shaker.

## LI11 SERIES INCUBATOR SHAKER

- High quality cold rolling plate numerical control technology
- Stainless steel inner bag
- The temperature control accuracy is higher
- Brushless DC motor, range, constant moment and constant rotation speed etc
- The brushless DC drive technology makes the product durable and free of maintenance
- Intelligent fuzzy PID control technology and brushless DC low speed constant torque technology
- The material vessel will not be damaged and broken despite of the increase or decrease of load, or sudden change of speed
- Self protection functions are provided for overheating of motor and abnormal operation of overloading
- Flexible system design for repetition, eccentrically braced structure design for rotation, brushless motor, NSK bearing
- Performance is more perfect



## SPECIFICATIONS

Model	LI111	LI112
Speed Range	25-300 rpm/	25-300 rpm
Temperature Range	RT+5°C ~ 60°C	
Temperature Precision	±0.1°C	
Temperature Uniformity	±1°C	
Shaking Speed Accuracy	±1 rpm	
Speed Increment	±1r/min	
Timing Range	0~999 h	
Motion	Rotary	Reciprocal
Maximum Load Capacity	10 kg-25 rounds; 5 kg-300 rounds	
Platform Dimension	485x335 mm	415x355 mm
Inner Dimension	499x480x420 mm	

Overall Dimension	522x404x140 mm	652x609x547 mm
Display	LED	
Power Supply	220 V 50/60 Hz 30 VA	220 V 50/60 Hz 350 VA



LI111



LI112

## LI12 SERIES INCUBATOR SHAKER

- Integrate incubator and shaker
- Save lab space
- Compact designed, good temperature uniformity, low noise
- Micro-processor controls temperature and shaking speed
- Built-in time function
- Friendly designed touch screen and operation panel
- Cover can be widely angle opened, convenient to watch and pick sample
- Equiped with cover switch
- When the cover is open, air circulation, heating and shaking automatically stop
- No temperature overshoot problem
- Unique speed control circuit to ensure shaker smoothly starting to avoid liquid spilling
- Circulation fan speed can be adjusted to avoid high-speed of the circulation fan making the sample volatilizing
- Independent temperature alarm system
- Heating is cut off when temperature is over the limited value
- Alarm after program finished
- Brushless DC motor, long life and free maintenance



## SPECIFICATIONS

Model	LI121	LI122	LI123	LI124
Speed Range	50-300 rpm	200-1200 rpm	50-300 rpm	
Temperature Range	RT+5-60°C			4°C~60°C @RT≤25°C
Temperature Accuracy	0.1°C			
Temperature Stability @37°C	≤±0.3°C			
Shaking Orbit	20 mm	3 mm	20 mm	
Timing Range	1 min~99 h 59 min or continuous			
Overall Dimension	360x435x320 mm		514x660x430 mm	385x560x320 mm
Weight	18.7 kg		44.2 kg	18.7 kg

Fuse	250 V,3 A/5 A, Ø5x20	
Power	400 W	600 W
Power Supply	AC220 V/AC110, 50/60 Hz	

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Platform Size	Capacity	For Models
SX5052	Platform	Flat platform with non-slip rubber mat			LI121
SX5053	Platform	Double deck flat platform with non-slip rubber mat			LI121
SX5054	Platform	Platform with clamps for flasks 100-150 ml			LI121
SX5055	Platform	Platform with clamps for flasks 250-300 ml			LI121
SX5056	Platform	Universal platform with adjustable bars			LI121
SX5057	Platform	Universal platform with springs			LI121
SX5058	Platform	Sticky pad (not platform. can be put in the platform SX5052 or SX5053)			LI121
SX5059	Platform		280x214x13 mm	4 standard plates	LI122



LI121, LI122



LI123



LI124

## LI13 SERIES INCUBATOR SHAKER



LI131



LI132



LI133, LI135



LI134

## FEATURES

The electronic control of closed cycle adjustable heating system

Sainless steel interior and Electrostatic sprayed exterior

Call to restore function, without power supply With strong influence of intermittent rapid heating system with air pressure regulating valve

Flexible and convenient, wide variety of detachable accessories

Encryption lock for operation parameters

The micro processing chip frequency control With the timing function of 1 min to 99.9 hrs, the remaining time is displayed on LCD

LI131 LI132 LI133 LI134 LI135

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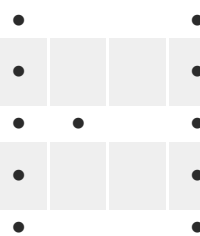
Audible alarm Motor overheating protection device

The unique three-dimensional eccentric wheel driving mechanism With operating parameter memory function

Microprocessor PID controller

The AC induction motor drive, wide speed, constant torque, constant speed, no carbon brush, long life, maintenance free heating parts

Automatically cut off the heating power when overheating



## SPECIFICATIONS

Model	LI131	LI132	LI133
Speed Range	20-300 rpm		
Standard Capacity	500 mlx3, 250 mlx3, 100 mlx4, 50 mlx4	250 mlx24	500 mlx36
Temperature Range	RT+5°C~60°C	RT+5-60°C	
Temperature Accuracy	±0.1°C		
Temperature Uniformity	±1°C		
Shaking Speed Accuracy	±1 rpm	-	-
Timing Range	Optional		
Motion	Orbital		
Amplitude	24 mm	26 mm	
Tray	1	2	
Platform Dimension	4375x405 mm	500x350 mm	730x460 mm
Inner Dimension	428x456x360 mm	-	-
Overall Dimension	640x605x520 mm	700x665x1350 mm	980x820x1335 mm
Display	LCD		
Weight	72 kg	150 kg	220 kg
Power	365 W	720 W	960 W
Power Supply	220 V±10%	220 V, 50/60 Hz	

Model	LI134	LI135
Speed Range	20-300 rpm	
Standard Capacity	500 mlx4, 250 mlx4, 100 mlx5, 50 mlx5	500 mlx28 / 250 mlx46
Temperature Range	4°C~60°C	RT+5-60°C
Temperature Accuracy	±0.1°C	
Temperature Uniformity	±1°C	
Shaking Speed Accuracy	±1 rpm	-
Timing Range	Optional	-
Motion	Orbital	
Amplitude	26 mm	36 mm
Tray	1	2
Platform Dimension	450x400 mm	960x560 mm
Inner Dimension	508x458x360 mm	-
Overall Dimension	800x700x530 mm	1200x850x1440 mm
Display	LCD	
Weight	100 kg	360 kg
Power	580 W	1170 W
Power Supply	220 V±10%	220 V, 50/60 Hz

**LABSTAC LTD.**

Kemp House, 152 City Road,  
London EC1V 2NX, United Kingdom.

Email: [contact@labstac.com](mailto:contact@labstac.com)

Website: [labstac.com](http://labstac.com)

