

# COOLED SHAKING INCUBATOR



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Highly efficient insulation guarantees homogeneous temperature dispersion as well as reproducible cultivation results and combines uniform, reliable performance with low energy consumption. Suitable for cell culturing, solubility studies, sample preparation, water analysis, BOD measurement, plating and breeding experiments in research institutions, universities and colleges. Used in Cell Culturing, Cell Aeration, Solubility Studies, Sample Preparation, Water Analysis, BOD Measurement, Plating, Breeding Experiments, Research Institutions, Universities, Colleges. Also known as Cooled Shaking Incubator, Shaker Incubator, Laboratory Cooled Shaking Incubator.

## LC11 SERIES COOLED SHAKING INCUBATOR

- Advanced fuzzy logic PID controlling system provides precise rotation speed, temperature control and operating time  
Advanced numerically controlled processing technique ensures reliable and stable mechanical structure
- Base structure adopts stable vermicular casting technique
- Standard mode configures fixed temperature, rotation speed and time
- Program mode configures temperature, rotation speed and time as required by the user
- Sound air duct structure ensures homogeneity and precision of temperature
- Membrane touch keys with large scale
- LCD display Operation panel designed for the convenience of users to configure operating and test parameters
- Scientific off-centre weight balancing technique ensures long service time for three-axis off-centre actuating machine
- Three-axis off-centre actuating structure ensures stable start and stop of the samples
- Adopts abrasion resistance in axletrees
- Built-in cooling system provides optimum environment for cultivation of microbes, cells and special tissues in low temperatures
- Avoids dithering while operating and prevents damage of sensitive cells
- Brushless actuating system with unidirectional flow Less error during mechanical processing ensures long service time, stable and non-vibrating machine
- Cooling system uses environmental R134a cryogen mechanical over temperature protection device
- Top and bottom temperature limit alarm RS232 interface



## SPECIFICATIONS

Model	LC111	LC112
Speed Range	25-300 rpm	25-400 rpm
Temperature Range	4-60°C	
Temperature Accuracy	±0.1°C	
Temperature Uniformity	±1°C	
Temperature Fluctuation	±1°C	
Temperature Resolution	±0.1°C	
Permissible Ambient Temperature	20°C	
Shaking Speed Accuracy	±1 rpm	
Speed Increment	1 rpm	
Motion	Reciprocal	-
Platform Dimension	460x460 mm	
Inner Dimension	520x550x450 mm	
Overall Dimension	620x840x630 mm	
Weight	100/110 kg	
Power	800 W	
Power Supply	220 V, 60 Hz	

## LC12 SERIES COOLED SHAKING INCUBATOR



LC121



LC122



LC123



LC124, LC125

### FEATURES

	LC121	LC122	LC123	LC124	LC125
The electronic control of closed cycle adjustable heating system	•				
Stainless 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		•			•
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		•			•
LCD display			•	•	

## SPECIFICATIONS

Model	LC121	LC122	LC123
Speed Range	20-300 rpm		
Standard Capacity	500 mlx3, 250 mlx4, 100 mlx5, 50 mlx5	250 mlx24	2000 mlx8
Temperature Range	4°C~60°C		
Temperature Accuracy	±0.1°C		
Temperature Uniformity	±1°C		
Shaking Speed Accuracy	±1 rpm		
Timing Range	Optional		
Motion	Orbital		
Amplitude	26 mm		
Tray	1	2	1
Platform Dimension	450x400 mm	500x350 mm	920x500 mm
Inner Dimension	508x458x360 mm	-	-
Overall Dimension	800x700x530 mm	700x665x1350 mm	1100x765x890 mm
Display	LCD		
Weight	100 kg	165 kg	183 kg
Power	580 W	950 W	1800 W
Power Supply	220 V, 60 Hz		
Permissible Ambient Temperature	-	10-30°C	-

Model	LC124	LC125
Speed Range	20-300 rpm	
Standard Capacity	250 mlx54	500 mlx28 / 250 mlx46
Temperature Range	4°C~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	730x460 ml	960x560 mm
Inner Dimension	-	-
Overall Dimension	980x820x1335 ml	1200x850x1440 mm
Display	LCD	
Weight	240 kg	380 kg
Power	1250 W	1400 W
Power Supply	220 V, 60 Hz	
Permissible Ambient Temperature	-	10-30°C