# COOLED SHAKING INCUBATOR



# **COOLED SHAKING INCUBATOR**

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

Also known as Laboratory Incubator Shaker, Incubator Shaker.

## **SHA12-300** COOLED SHAKING INCUBATOR

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 of 200 type and 100B type with air pressure regulating valve

Flexible and convenient, wide variety of detachable accessories



#### **SPECIFICATIONS**

Model	SHA12-300	
Speed Range	20-300 rpm	
Standard Capacity	500mlx3, 250mlx4, 100mlx5, 50mlx5	
Temperature	4°C~60°C	
Temperature Accuracy	±0.1°C	
Temperature Uniformity	±1℃	
Shaking Speed Accuracy	±1 rpm	
Timing Range	Optional	
Motion	Orbital	
Amplitude	26 mm	
Tray	1	
Platform Dimension	450x400 mm	
Inner Dimension	508×458×360 mm	
Overall Dimension	800×700×530 mm	
Display	LCD	
Weight	100 kg	
Power	580 W	
Power Supply	220V, 60Hz	

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## **SHA13-300** COOLED SHAKING INCUBATOR

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



#### **SPECIFICATIONS**

Model	SHA13-300	
Speed Range	20-300 rpm	
Standard Capacity	250mlx24	
Temperature	4°C~60°C	
Temperature Accuracy	±0.1°C	
Temperature Uniformity	±1°C	
Permissible Ambient Temperature	10-30°C	
Shaking Speed Accuracy	±1 rpm	
Timing Range	Optional	
Motion	Orbital	
Amplitude	26 mm	
Tray	2	
Platform Dimension	500×350 mm	
Overall Dimension	700x665x1350 mm	
Display	LCD	
Weight	165 kg	
Power	950 W	
Power Supply	220V, 60Hz	

# **SHA14-300** COOLED SHAKING INCUBATOR

Microprocessor controller

Stainless steel interior and Electrostatic sprayed exterior

LCD display



## **SPECIFICATIONS**

Model	SHA14-300	
Speed Range	20-300 rpm	
Standard Capacity	2000mlx8	
Temperature	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	
Platform Dimension	920x500 mm	
Overall Dimension	1100×765×890 mm	
Display	LCD	
Weight	183 kg	
Power	1800 W	
Power Supply	220V, 60Hz	

# **SHA15-300** COOLED SHAKING INCUBATOR

Microprocessor controller Stainless steel interior and Electrostatic sprayed exterior LCD display



## **SPECIFICATIONS**

Model	SHA15-300	
Speed Range	20-300 rpm	
Standard Capacity	250mlx54	
Temperature	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	

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Platform Dimension	730x460 ml	
Overall Dimension	980x820x1335 ml	
Display	LCD	
Weight	240 kg	
Power	1250 W	
Power Supply	220V, 60Hz	

# **SHA15-300C** COOLED SHAKING INCUBATOR

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



## **SPECIFICATIONS**

Model	SHA15-300C	
Speed Range	20-300 rpm	
Standard Capacity	500mlx28 / 250mlx46	
Temperature	4°C~60°C	
Temperature Accuracy	±0.1°C	
Temperature Uniformity	±1°C	
Permissible Ambient Temperature	10-30°C	
Shaking Speed Accuracy	±1 rpm	
Timing Range	Optional	
Motion	Orbital	
Amplitude	36 mm	
Tray	2	
Platform Dimension	960×560 mm	
Overall Dimension	1200×850×1440 mm	
Display	LCD	
Weight	380 kg	
Power	1400 W	
Power Supply	220V, 60Hz	

## **SHA11** 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	SHA11-300	SHA11-400		
Speed Range	25-300 rpm	25-400 rpm		
Temperature	4-6	4-60°C		
Temperature Accuracy	±0.	±0.1°C		
Temperature Uniformity	±1	±1°C		
Temperature Fluctuation	±1	±1°C		
Temperature Resolution	±0.	±0.1°C		
Permissible Ambient Temperature	20	20°C		
Shaking Speed Accuracy	±1 :	±1 rpm		
Speed Increment	1 դ	1 rpm		
Motion	Reciprocal	-		
Inner Dimension	460x46	460x460 mm		
Overall Dimension	620x840x	620x840x630 mm		
Weight	100/1	100/110 kg		
Power	800	800 W		
Power Supply	220 V,	220 V, 60 Hz		



SHA11-300



SHA11-400



## Centrifugen

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