

# 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°C
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

# 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

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	4-60°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	-
Inner Dimension	460x460 mm	
Overall Dimension	620x840x630 mm	
Weight	100/110 kg	
Power	800 W	
Power Supply	220 V, 60 Hz	



SHA11-300



SHA11-400



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