# THERMO SHAKER INCUBATOR



# THERMO SHAKER INCUBATOR

The unique design principle which combines mixing and shaking with intelligent control makes it operation simpler, safe, and convenient. It is compact, highly-efficient and consist several features including intelligent programming for easy and accurate operation results. It is primarily used to mix different micro capacity tube, PCR plate, micro-titer plate and other laboratory equipment.

Used in Incubation, Cultivation, Re-suspending Pellets, Denaturin, PCR preparations, ELISA Assays, Colorimetric Assays, Enzyme, Protein Analysis.

Also known as Thermo Shaker, Lab Shaker, Thermo Shaker Incubator, Laboratory Thermo Shaker Incubator, Mixer, Laboratory Mixer.

## **SHA71** THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, vortexing numerous tube formats

Custom blocks available for different experiment needs



#### **SPECIFICATIONS**

Model	SHA71-2000	SHA71-1600		
Speed Range	300-2000 rpm	300-1600 rpm		
Temperature	RT +5-100°C	0-100°C		
Temperature Accuracy		<±0.3°C		
Temperature Resolution		0.1°C		
Vortex Shaking Speed		None		
Shaking Orbit		3 mm		
Time of Heating		≤20min (from 20°Cto 100°C)		
Time of Cooling	No cooling function ≤25min(RT-20°C), ≤15min(from 100°Cto 20°C)			
Timing Range	99h59min			
Motion	Orbital			
Overall Dimension	270x196x170 mm 270x190x170 mm			
Display	LCD			
Weight	6.8 kg 8.3 kg			
Power	200 W			
Power Supply	230V, 60Hz			
Cooling Speed	- >7°C/min (from 100° C to 20° C) and >1.2°C/min (from RT to RT -20°C)			

## **OPTIONAL ACCESSORIES**

Accessory Code	Name	Description	Temperature
LS53621	Block	96 x 0.2ml PCR plate	Max. Temp. 100°C
LS53633	Block	54 x 0.5ml	Max. Temp. 100°C
LS53645	Block	35 x 1.5ml	Max. Temp. 100°C
LS53657	Block	35 x 2.0ml	Max. Temp. 100°C
LS53669	Block	20 x 0.5ml + 15 x 1.5ml	Max. Temp. 100°C
LS53681	Block	24 x dia. ≤ Φ12mm	Max. Temp. 100°C
LS53693	Block	32 x 0.2ml + 25 x 1.5ml	Max. Temp. 100°C
LS53705	Block	32 x 0.2ml + 10 x 0.5ml + 15 x 1.5ml	Max. Temp. 100°C
LS53717	Block	103 x 67 x 30mm (water bath block)	Max. Temp. 100°C
LS53729	Block	flat block	Max. Temp. 100°C
LS53741	Block	24 x 5ml (non-standard)	Max. Temp. 100°C
LS53753	Block	12 x 15ml (non-standard)	Max. Temp. 100°C
LS53765	Block	6 x 50ml (non-standard)	Max. Temp. 100°C
LS53777	Block	customized	Max. Temp. 100°C
LS53789	Block	Suit for block A ~H, J	
LS53801	Block	Suit for block I, K, L, M	
LS54293	Tube Stand	96x0.2ml	
LS54305	Tube Stand	24x0.5ml	
LS54317	Tube Stand	24x1.5/2.0ml	



SHA71-2000



SHA71-1600

# **SHA73** THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, Vortexing numerous tube formats

Custom blocks available for different experiment needs



## **SPECIFICATIONS**

Model	SHA73-3000	SHA73-2000
Speed Range	300-3000 rpm	300~2000 rpm
Temperature	RT+5-	100°C
Temperature Accuracy	0.5	5°C
Temperature Resolution	0.1	°C
Vortex Shaking Speed	No	ne
Speed Increment	10 r	pm
Shaking Orbit	2 mm	3 mm
Time of Heating	≤12min	
Time of Cooling	No cooling function	
Timing Range	1min ~ 99h59 min	1min ~ 99h59 min
Motion	Orb	ital
Overall Dimension	230x170x	x165 mm
Weight	5.5	kg
Power	150	) W
Power Supply	230V,	60Hz

Accessory Code	Name	Description
LS52818	Block	96x0.2ml
LS52831	Block	54x0.5ml
LS52844	Block	35x1.5ml
LS52857	Block	35x2.0ml
LS52870	Block	15x1.5ml+20x0.5ml
LS52883	Block	24xDia.≤φ12mm tube
LS52896	Block	32x0.2ml+25x1.5ml
LS52909	Block	32x0.2ml+10x0.5ml+15x1.5ml

Accessory Code	Name	Description
LS52922	Block	103x67x30 Rectangular bath block
LS52934	Block	96 wells microplate
LS52946	Tube Hold	96x0.2ml PCR tube hold
LS52958	Tube Hold	24x0.5ml
LS52970	Tube Hold	24x1.5/2.0ml
LS52982	Tube Hold	8x15ml
LS52994	Tube Hold	3x50ml







SHA73-2000

# **SHA72-1500** THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications

Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, vortexing numerous tube formats

Custom blocks available for different experiment needs



#### **SPECIFICATIONS**

Model	SHA72-1500
Speed Range	200-1500 rpm
Temperature	5-100°C
Temperature Accuracy	<± 0.5°C
Temperature Resolution	0.1°C
Vortex Shaking Speed	None
Shaking Orbit	4 mm
Time of Heating	≤15min (from 20°C to 100°C)
Time of Cooling	No cooling function
Timing Range	1 min~99 h59 min
Motion	Orbital
Overall Dimension	300x220x170 mm
Weight	7 kg
Power	150 W
Power Supply	AC220 V 50/60 Hz or AC120 V 50/60 Hz

Accessory Code	Name	Description
LS53121	Block	54x0.5 ml
LS53133	Block	35x1.5 ml
LS53145	Block	35x2.0 ml
LS53157	Block	15x0.5 ml+20x1.5 ml
LS53169	Block	24xDia.≤φ12 mm tube
LS53181	Block	103x67x30 Rectangular bath block
LS53193	Block	96 wells microplate

Accessory Code	Name	Description
LS53205	Block	24x5.0ml tubes
LS53217	Block	15x5.0 ml Eppendorf tubes
LS53241	Block	96x0.2 ml
LS53361	Block	12x15 ml Falcon tube
LS53373	Block	6x50 ml Falcon tube
LS53385	Block	96-Deep well microplate

# **SHA74-1500** THERMO SHAKER INCUBATOR

Optimized 2D mixing designed for simultaneous mixing and vortexing applications

Pre-programmed soft keys and reliable universal holder

Automatic imbalance detection and anti-spill technology

Mixing in a 3-in-1 format: Plates (up to 96-well and 384-well formats), Micro-Tubes, vortexing numerous tube formats

Custom blocks available for different experiment needs



#### **SPECIFICATIONS**

Model	SHA74-1500
Speed Range	200-1500 rpm
Temperature	0-100°C
Temperature Accuracy	<± 0.5°C
Temperature Resolution	0.1°C
Vortex Shaking Speed	200-1500 rpm
Shaking Orbit	3 mm
Time of Heating	≤20 min (from 20°C to 100°C)
Time of Cooling	≤25 min (from ambient to ambient -20°C)
Timing Range	1 min~99 h59 min
Motion	Orbital
Overall Dimension	300x220x170 mm
Weight	8.5 kg
Power	150 W
Power Supply	AC220 V 50/60 Hz or AC120 V 50/60 Hz

Accessory Code	Name	Description
LS53121	Block	54x0.5 ml
LS53133	Block	35x1.5 ml
LS53145	Block	35x2.0 ml
LS53157	Block	15x0.5 ml+20x1.5 ml
LS53169	Block	24xDia.≤φ12 mm tube
LS53181	Block	103x67x30 Rectangular bath block
LS53193	Block	96 wells microplate

Accessory Code	Name	Description
LS53205	Block	24x5.0ml tubes
LS53217	Block	15x5.0 ml Eppendorf tubes
LS53241	Block	96x0.2 ml
LS53361	Block	12x15 ml Falcon tube
LS53373	Block	6x50 ml Falcon tube
LS53385	Block	96-Deep well microplate

# **SHA75-1500** THERMO SHAKER INCUBATOR

Excellent mixing result

Stable and wide range of speed adjustment

A combination of heating & mixing in one instrument

Flexible adapter selection 8 types of blocks, compatible with most universally used tubes within 0.2mL-50mL volume range

Timer function support is available



## **SPECIFICATIONS**

Model	SHA75-1500
Speed Range	300-1500 rpm
Temperature	Heating: RT100°C
Temperature Accuracy	±0.5°C @20-45°C
Temperature Uniformity	Max. ±0.5°C @20–45°C
Over Temperature Protection	150°C
Functions	Heating & Mixing
Maximum Heating Rate	5.5°C/min
Overall Dimension	200x235x120 mm
Weight	7.3 kg
Power	200 W
Power Supply	100-120 V/220-240 V,50 Hz/60 Hz

	Accessory Code		Description
	LS53074	Heating block	Used for 0.5 mL tubes, 24 holes
	LS53086	Heating block	Used for 1.5 mL tubes, 24 holes
	LS53098	Heating block	Used for 2 mL tubes, 24 holes
	LS53110	Heating block	Used for 5 mL tubes, 8 holes

Accessory Code	Name	Description
LS53122	Heating block	Used for 0.2 ml / 96 well PCR plate
LS53134		Used for 96 / 384 microplate
LS53146	Heating block	Used for 15 mL tubes, 8 holes
LS53158	Heating block	Used for 50 mL tubes, 4 holes

## **SHA75-1500CR** THERMO SHAKER INCUBATOR

Excellent mixing result

3-in-1 instrument with heating, cooling and mixing

Flexible adapter selection 8 types of blocks, compatible with most universally used tubes within 0.2mL-50mL volume range

Timer function support is available

Overheating protection and auto-recognition of blocks



#### **SPECIFICATIONS**

Model	SHA75-1500CR	
Speed Range	300-1500 rpm	
Temperature	Heating: RT-100°C; Cooling: RT -below RT.15°C	
Temperature Accuracy	±0.5°C @20–45°C	
Temperature Uniformity	Max. ±0.5°C @20–45°C	
Over Temperature Protection	150°C	
Functions	Heating, Cooling & Mixing	
Maximum Heating Rate	5.5°C/min	
Maximum Cooling Rate	5°C/ min(110°C-RT.) 0.5°C/ min(RT.)	
Overall Dimension	200×235×120 mm	
Weight	7.3 kg	
Power	200 W	
Power Supply	100-120 V/220–240 V,50 Hz/60 Hz	

#### **OPTIONAL ACCESSORIES**

Accessory Code	Name	Description
LS53074	Heating block	Used for 0.5 mL tubes, 24 holes
LS53086	Heating block	Used for 1.5 mL tubes, 24 holes
LS53098	Heating block	Used for 2 mL tubes, 24 holes
LS53110	Heating block	Used for 5 mL tubes, 8 holes

Accessory Code		Description
LS53122	Heating block	Used for 0.2 ml / 96 well PCR plate
LS53134		Used for 96 / 384 microplate
LS53146	Heating block	Used for 15 mL tubes, 8 holes
LS53158	Heating block	Used for 50 mL tubes, 4 holes



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