

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 Incubařor.

LT11 SERIES 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	LT111	LT112
Speed Range	300-2000 rpm	300-1600 rpm
Temperature Range	RT +5-100°C	0-100°C
Temperature Accuracy	< $\pm 0.3^{\circ}\text{C}$	
Temperature Resolution	0.1°C	
Vortex Shaking Speed	None	
Shaking Orbit	3 mm	
Time of Heating	≤ 20 min (from 20°C to 100°C)	
Time of Cooling	No cooling function	≤ 25 min(RT-20°C), ≤ 15 min(from 100°C to 20°C)
Timing Range	99 h59 min	
Motion	Orbital	
Overall Dimension	270x196x170 mm	270x190x170 mm
Display	LCD	
Weight	6.8 kg	8.3 kg
Power	200 W	
Power Supply	230 V, 60 Hz	
Cooling Speed	-	$> 7^{\circ}\text{C}/\text{min}$ (from 100° C to 20° C) and $> 1.2^{\circ}\text{C}/\text{min}$ (from RT to RT -20°C)

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Temperature
SX5060	Block	96 x 0.2ml PCR plate	Max. Temp. 100°C
SX5061	Block	54 x 0.5 ml	Max. Temp. 100°C
SX5062	Block	35 x 1.5 ml	Max. Temp. 100°C
SX5063	Block	35 x 2.0 ml	Max. Temp. 100°C
SX5064	Block	20 x 0.5 ml + 15 x 1.5 ml	Max. Temp. 100°C
SX5065	Block	24 x dia. ≤ Φ12 mm	Max. Temp. 100°C
SX5066	Block	32 x 0.2 ml + 25 x 1.5 ml	Max. Temp. 100°C
SX5067	Block	32 x 0.2 ml + 10 x 0.5 ml + 15 x 1.5 ml	Max. Temp. 100°C
SX5068	Block	103 x 67 x 30 mm (water bath block)	Max. Temp. 100°C
SX5069	Block	flat block	Max. Temp. 100°C
SX5070	Block	24 x 5 ml (non-standard)	Max. Temp. 100°C
SX5071	Block	12 x 15 ml (non-standard)	Max. Temp. 100°C
SX5072	Block	6 x 50 ml (non-standard)	Max. Temp. 100°C
SX5073	Block	customized	Max. Temp. 100°C
SX5074	Block	Suit for block A ~H, J	
SX5075	Block	Suit for block I, K, L, M	
SX5076	Tube Stand	96x0.2 ml	
SX5077	Tube Stand	24x0.5 ml	
SX5078	Tube Stand	24x1.5 / 2.0 ml	

LT12 SERIES 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	LT121	LT122	LT123	LT124
Speed Range	200-1500 rpm	300-3000 rpm	300~2000 rpm	200-1500 rpm
Temperature Range	5-100°C	RT+5-100°C		0-100°C
Temperature Accuracy	<± 0.5°C	0.5°C		<± 0.5°C
Temperature Resolution	0.1°C			
Vortex Shaking	None			200-1500 rpm

Speed			
Shaking Orbit	4 mm	2 mm	3 mm
Time of Heating	≤15min (from 20°C to 100°C)	≤12 min	≤20 min (from 20°C to 100°C)
Time of Cooling	No cooling function		≤25 min (from ambient to ambient -20°C)
Timing Range	1 min~99 h59 min	1 min ~ 99 h59 min	1 min~99 h59 min
Motion	Orbital		
Overall Dimension	300x220x170 mm	230x170x165 mm	300x220x170 mm
Weight	7 kg	5.5 kg	8.5 kg
Power	150 W		
Power Supply	AC220 V 50/60 Hz or AC120 V 50/60 Hz	230 V, 60 Hz	AC220 V 50/60 Hz or AC120 V 50/60 Hz
Speed Increment	-	10 rpm	-

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	For Models
SX5021	Block	96x0.2 ml	LT121, LT124
SX5022	Block	54x0.5 ml	LT121, LT124
SX5023	Block	35x1.5 ml	LT121, LT124
SX5024	Block	35x2.0 ml	LT121, LT124
SX5025	Block	15x0.5 ml+20x1.5 ml	LT121, LT124
SX5026	Block	24xDia.≤φ12 mm tube	LT121, LT124
SX5027	Block	12x15 ml Falcon tube	LT121, LT124
SX5028	Block	6x50 ml Falcon tube	LT121, LT124
SX5029	Block	103x67x30 Rectangular bath block	LT121, LT124
SX5030	Block	96 wells microplate	LT121, LT124
SX5031	Block	24x5.0ml tubes	LT121, LT124
SX5032	Block	96-Deep well microplate	LT121, LT124
SX5033	Block	15x5.0 ml Eppendorf tubes	LT121, LT124
SX5034	Block	96x0.2 ml	LT122, LT123
SX5035	Block	54x0.5 ml	LT122, LT123
SX5036	Block	35x1.5 ml	LT122, LT123
SX5037	Block	35x2.0 ml	LT122, LT123
SX5038	Block	15x1.5 ml+20x0.5 ml	LT122, LT123
SX5039	Block	24xDia.≤φ12 mm tube	LT122, LT123
SX5040	Block	32x0.2 ml+25x1.5 ml	LT122, LT123
SX5041	Block	32x0.2 ml+10x0.5 ml+15x1.5 ml	LT122, LT123
SX5042	Block	103x67x30 Rectangular bath block	LT122, LT123
SX5043	Block	96 wells microplate	LT122, LT123
SX5044	Tube Hold	96x0.2 ml PCR tube hold	LT122, LT123
SX5045	Tube Hold	24x0.5 ml	LT122, LT123
SX5046	Tube Hold	24x1.5/2.0 ml	LT122, LT123
SX5047	Tube Hold	8x15 ml	LT122, LT123
SX5048	Tube Hold	3x50 ml	LT122, LT123



LT121



LT122, LT123



LT124

LT13 SERIES THERMO SHAKER INCUBATOR



LT131, LT132

FEATURES

	LT131	LT132
Excellent mixing result	•	•
Flexible adapter selection 8 types of blocks, compatible with most universally used tubes within 0.2mL-50mL volume range	•	•
Timer function support is available	•	•
Stable and wide range of speed adjustment	•	
A combination of heating & mixing in one instrument	•	
3-in-1 instrument with heating, cooling and mixing		•
Overheating protection and auto-recognition of blocks		•

SPECIFICATIONS

Model	LT131	LT132
Speed Range	300-1500 rpm	
Temperature Range	Heating: RT.-100°C	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 & Mixing	Heating, Cooling & Mixing
Maximum Heating Rate	5.5°C/min	
Mixing Diameter	3 mm	
Program	9	
Overall Dimension	200x235x120 mm	200x235x120 mm
Weight	7.3 kg	
Power	200 W	
Power Supply	100-120 V/220-240 V,50 Hz/60 Hz	100-120 V/220-240 V,50 Hz/60 Hz

Maximum Cooling Rate	-	5°C/ min(110°C-RT.) 0.5°C/ min(RT.)
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OPTIONAL ACCESSORIES

Accessory Code	Name	Description
SX5094	Heating block	Used for 0.5 mL tubes, 24 holes
SX5095	Heating block	Used for 1.5 mL tubes, 24 holes
SX5096	Heating block	Used for 2 mL tubes, 24 holes
SX5097	Heating block	Used for 5 mL tubes, 8 holes

Accessory Code	Name	Description
SX5098	Heating block	Used for 15 mL tubes, 8 holes
SX5099	Heating block	Used for 50 mL tubes, 4 holes
SX5100	Heating block	Used for 0.2 ml / 96 well PCR plate
SX5101	Heating block	Used for 96 / 384 microplate

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