

# *Shaking Incubators & Shakers*



## Bench Top Shaking Incubator **LBSI Series**

Bench Top Shaking Incubator provides a controlled environment for continuous growth of biological organisms. LBSI Series has a wide variety of applications including microbiology, tissue culture, cell culture and bacteriology. Moreover it is also provided with four load bearing positions to optimize weight distribution hence supporting the load over years of constant use.

### Features:

- Integrated microprocessor digital PID controller provides temperature, shaking speed, timer and safety at once.
- Equipped with wait-off timer, alarm, auto-tuning and inbuilt temperature calibration function.
- Temperature and shaking can be controlled together or independently with wait-off timer.
- Two kinds of models for different application  
LBSI-100A without chiller: ambient + 5°C - 60°C  
LBSI-100B with chiller: 10°C - 60°C.
- Transparent acrylic transparent viewing see-thru window for sample observation during operation without opening the door. Built-in working lamp.
- Shaking motion automatically cut-off to protect user from moving parts when door open.
- Slow start and stop of shaking motion provides smooth operation and prevent shock.
- Spring rack holds various shapes of containers.
- Volume adjustable flask holder made by polycarbonate plastic.
- Feed-back logic control system provides shaking speed accuracy within  $\pm 1$  rpm up to 300 rpm.
- Dual digital LED display PV and SV value and selection of temperature, speed and time display.



**LBSI-100 A & B**

### Technical Specifications:

MODEL		LBSI-100A	LBSI-100B
Chamber Volume(Capacity)		115L	
Temperature	Heating Type	Forced Convection	
	Range	Ambient +5°C ~ 60°C without Cooling System	10°C ~ 60°C with Cooling System
	Accuracy	$\pm 0.1^{\circ}\text{C}$ at 25°C	
	Uniformity	$\pm 1.0^{\circ}\text{C}$ at 25°C	
Shaking Speed/Stroke		60~300rpm / 20mm Orbital Motion	
Main Controller	Wait off Timer	Digital PID Controller with timer and auto-tuning	
	Sensor	mm:ss/hh:mm/Continuous selectable	
		Pt 100 $\Omega$	
Safety Device	Temperature	Hydraulic over temperature protection safety device	
	Electrical	Electrical leakage breaker	
Dimension (WxDxH) mm	Chamber	550 x 585 x 360	
	Overall	765 x 640 x 770	
	Platform	500 W x 510 D	
Material	Internal	Stainless steel 0.8T Polished (SUS304)	
	External	Steel 1T with Epoxy Powder Coating	
	Door	Weight Balanced Door with Transparent Acrylic Window	
Utility	Lamp	25 Watt Crypton Lamp in Chamber	
Catalog No.		18150101	18150102

### Optional Accessories

	Catalog No.
Universal Spring Rack 500 x 500 x 140mm	18150111
Flask holder size adjustable from 50 ~ 100ml x 30 EA	18150112
Flask holder size adjustable from 200 ~ 300ml x 30 EA	18150113
Flask holder size adjustable from 500ml x 12 EA or 1000ml x 5 EA	18150114
Test tube holder 16mm x 30 holes (100 x 185 x 208mm)	18150115
Test tube holder 25mm x 14 holes (100 x 185 x 208mm)	18150116

## Floor Standing Shaking Incubator **LFSI Series**

Floor Standing Shaking Incubator features unique counter balance weighting system to avoid off-center loads, varying capacities and stroke lengths, which in turn allows smoother running. The LFSI Series has a small footprint and its chamber provides shelf space for static incubation during shaking.

### Features:

- Integrated microprocessor digital PID controller provides temperature, shaking speed, timer and safety at once.
- Shaking motion automatically cut-off to protect user from moving parts when door open.
- Temperature and shaking can be controlled together or independently with wait-off timer.
- Temperature from 10°C - 60°C by  $\pm 0.2^\circ\text{C}$  accuracy.
- Feed-back logic control system provides shaking speed accuracy within  $\pm 1$  rpm up to 300 rpm.
- Dual digital LED display PV and SV value and selection of temperature, speed and time display.
- Transparent acrylic transparent viewing see-thru window for sample observation during operation without opening the door. Built-in working lamp.
- Slow start and stop of shaking motion provides smooth operation and prevent shock.
- Spring rack holds various shapes of containers.
- Equipped with wait-off timer, alarm, auto-tuning and inbuilt temperature calibration functions.
- Volume adjustable flask holder made by polycarbonate plastic.



**LFSI-300 A & B**

### Technical Specifications:

MODEL		LFSI-300A	LFSI-300B
Chamber Volume (Capacity)		216L	
Temperature	Heating Type	Forced Convection	
	Range	10°C~60°C with Cooling System	
	Accuracy	$\pm 0.1^\circ\text{C}$ at 25°C	
	Uniformity	$\pm 1.0^\circ\text{C}$ at 25°C	
Shaking Speed/Stroke		60~300 rpm / 20mm Orbital Motion	
Illumination		No	Fluorescent Lamp 20W x 4EA
Control	Main Controller	Digital PID Controller with Timer and Auto-tuning, Calibration Function	
	Wait off Timer	mm:ss/hh:mm/Continuous Selectable	
	Sensor	Pt 100Q	
Safety Device	Temperature	Hydraulic Over Temperature Protection Safety Device	
	Electrical	Electrical Leakage Breaker	
Dimension (WxDxH) mm	Chamber	750 x 720 x 400	
	Overall	1050 x 820 x 1000	
	Platform	700 W x 650 D	
Material	Internal	Stainless Steel 0.8T Polished (SUS304)	
	External	Steel 1T with Epoxy Powder Coating	
	Door	Weight Balanced Door with Transparent Acrylic Window	
Utility	Lamp	25 Watt Crypton Lamp in Chamber	
Catalog No.		18150201	18150202

### Optional Accessories

	Catalog No.
Universal spring rack 700 x 600 x 140mm	18150221
Flask holder size adjustable from 50 ~ 100ml x 60 EA	18150222
Flask holder size adjustable from 200 ~ 300ml x 42 EA	18150223
Flask holder size adjustable from 500~1000ml x 16EA	18150224

## Stackable Shaking Incubator *LSI Series*

Shaking Incubator is designed to provide controlled and uniform conditions for biological growth. Forced air circulation ensures uniform heating of the load. For extra protection of the samples the incubator is fitted with an adjustable safety temperature cut-out. Shaker speed is variable and has electronic feedback control to accurately maintain speeds.

### Features:

- Front loading with glass window.
- Accommodates both shaking platform and static wire self for general incubation.
- Space saving tabletop or stackable design.
- Transparent double layer tempered safety glass window for sample observation during operation without opening the door.
- Built-in work lamp.
- Shaking motion automatically cut-off to protect user from moving parts when door open.
- Slow start and stop of shaking motion provides smooth operation and prevent shock.
- Volume adjustable flask holder made by polycarbonate plastic.



LSI-200 C

### Technical Specifications:

MODEL		LSI-200C
Chamber Volume (Capacity) (L)		165
Temperature	Heating Type	Forced Convection
	Range	10°C ~ 60°C with cooling system
	Accuracy	± 0.1°C at 25°C
	Uniformity	± 0.1°C at 25°C
Shaking Control	Speed / Stroke	60 ~ 300rpm / 20mm Orbital Motion
	Main Controller	Digital PID Controller with Timer, Auto-tuning, Calibration function
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable
	Sensor	Pt 100Ω
Safety Device	Temperature	Hydraulic Over Temperature Protection Safety Device
	Electrical	Electrical Leakage Breaker
Dimensions (mm)	Chamber (W x D x H)	530 x 530 x 590
	Overall (W x D x H)	925 x 740 x 940
	Platform (W x D)	150 x 410
Material	Internal	Stainless steel 0.8 T Polished (SUS304)
	External	Steel 1T with Epoxy powder coating
	Door	Self weight balanced door with transparent tempered safety glass window
Utility	Lamp	25Watt Crypton working lamp in chamber
Catalog No.		18150301

### Optional Accessories

	Catalog No.
Flask holder platform; Size adjustable from 500ml x 16ea or 1000ml x 5ea	18150331

## Shaking Incubator *LSI Series*

Shaking Incubator is designed to provide controlled and uniform conditions for biological growth. Forced air circulation ensures uniform heating of the load. For extra protection of the samples the incubator is fitted with an adjustable safety temperature cut-out.

### Features:

- Brushless induction drive motors are maintenance-free and quiet even at high speeds.
- Beltless system ensures low noise levels and is maintenance-free.
- Designed in Uplight-Type : Support multi process including general incubating using by internal shelf is possible for LSI-8480D model.
- Low noise Brushless DC Motor and beltless mechanism ensure the noiseless driving.
- Allows up to 4 different programs within one run.



LSI-8480 C



LSI-8480 A & B



LSI-8480 D

### Technical Specifications:

MODEL	LSI-8480A	LSI-8480B	LSI-8480C	LSI-8480D
Temperature Range	Ambient +5°C to 60°C	15°C to 60°C		10°C to 60°C
Temperature Control	Digital PID Controller		-	Digital PID Controller
Speed Range	10-350 RPM		10-350 RPM	10-350 RPM
Display	Digital Display		-	Digital Display
Drive System	Belt less Direct Drive			
Motor	Brushless DC Motor K-Type		Brushless DC Motor	Brushless DC Motor K-Type
Circulation Fan	3.5" Convection fan x 2EA		-	5" Convection fan x 2EA
Dimension [IN] mm	510 x 530 x 400 [H]		-	520 x 600 x 710 [H]
Dimension [OUT] mm	515 x 730 x 720 [H]		-	700 x 750 x 1550 [H]
Lid	Acrylic Blue		-	2EA, Adjustable
Safety Device	Over Temp. Protector, Over Load Protector		-	Over Temp Protector, Over Load Protector
Standard Plate	250ml x 25EA		250ml x 40EA	250ml x 25EA
Power	220V, 2.3A, 60Hz	220V, 5A, 60Hz	-	220V, 6A, 60Hz
Catalog No.	18110201	18110202	18110203	18110204

### Optional Accessories

		Catalog No.
SPRING RACK	455 x 455mm	18110221
PLATE OF FLASK	100ml x 36EA	18110222
	250ml x 25EA	18110223
	500ml x 16EA	18110224
	1000ml x 9EA	18110225
	2000ml x 4EA	18110226

## Programmable Shaking Incubator **LPSI-8480A**

LPSI-8480A of Programmable Shaking Incubators is recent addition to the list of laboratory equipments. Its salient features include large load capability and optimum flexibility.

### Features:

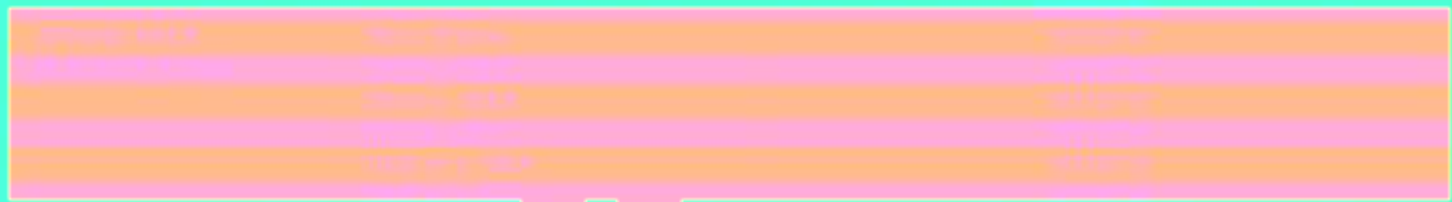
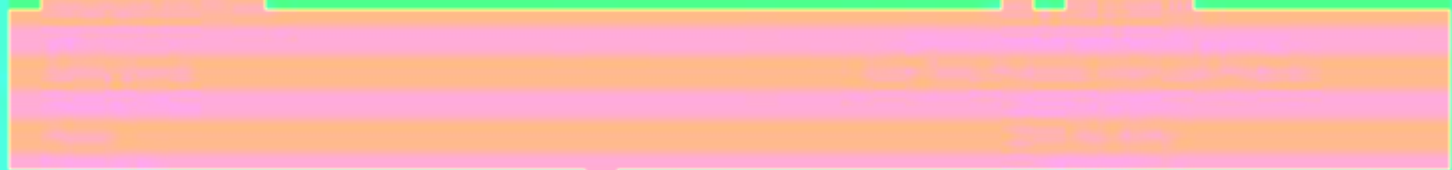
- Brushless induction drive motors are maintenance-free and quiet even at high speeds.
- Beltless system ensures low noise levels and is maintenance-free.
- Allows up to 4 different programs within one run. Indispensable in laboratories requiring different and complicated tasks.
- Optional remote control device.



**LPSI-8480 A**

### Technical Specifications:

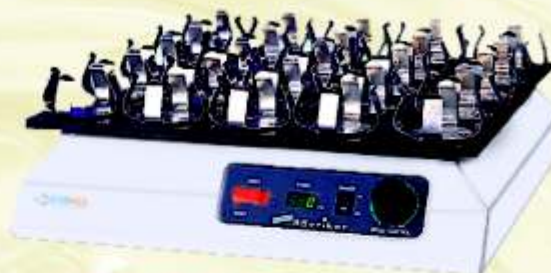
MODEL	LPSI-8480A
Temperature Range	10°C to 60°C
Temperature Control	Digital PID Controller
Speed Range	10-350RPM
Programmability	4-Step Programming
Display	Back-Lit LCD
Drive System	Belt less Direct Drive
Motor	Brushless DC Motor K-Type
Input	Touchpad
Working Mode	Normal, Frequently, Delayed Start
Circulation Fan	5" Convection fan x 2FA
Dimension (mm)	830 x 510 x 500



## Orbital/Reciprocal Shaker LGS Series & LOS-500



LGS-201 A, B & C



LGS-201 D & E  
LGS-202 A

### Features:

- Brushless induction drive motors are maintenance-free and quiet even at high speeds.
- Beltless system ensures low noise levels and is maintenance-free.
- Allows up to 4 different programs within one run. Indispensable equipment for different and complicate task in laboratories.
- The durable spring flask holder features a rubber plate to minimize noise and protects flasks against breakage.
- The unit is designed to emit low noise levels at all operating speeds.
- Speed and Timer settings can be input through an optional remote control device.

### Technical Specifications:

MODEL	LGS-201A	LGS-201B	LGS-201C	LGS-201D	LGS-201E	LGS-202A
Capacity	250ml x 9EA	250ml x 20EA	250ml x 40EA	250ml x 9EA	250ml x 40EA	250ml x 20EA
Dimensions (mm)	360x360x110[H]	470x490x115[H]	745x490x115[H]	360x360x110[H]	745x490x115[H]	470x490x115[H]
Max Speed	350RPM					
Min Speed	10RPM					
Motion	Orbital					Reciprocal
Controller	Microprocessor Control					
Programmability	4 Step program				-	-
Timer	99Hr. 59 min				999.9Hr	-
Display	Backlight LCD				Digital Display	-
Input	Touchpad				-	-
Drive System	Belt less Direct Drive					
Motor	Brushless DC Motor					
Noise	Below 30dBA					
Working Mode	Normal drive, Step drive, Frequency Drive, Delay Start					-
Catalog No.	17110301	17110302	17110303	17110304	17110305	17110306

## Orbital Shakers **LOS 500**

### Features:

- Integrated Micro Processor digital feedback control provide precise temperature control.
- Equipped with wait-off timer, alarm and inbuilt rpm calibration.
- Feed back logical control system provides shaking speed accuracy within  $\pm 1$  rpm up to 250 rpm.
- Dual digital LED display provides PV & value and selection of temperature, speed and time display.



**LOS-500**

MODEL		LOS-500
Platform Size (mm)		500 x 500
Shaking Control	Speed / Stroke	60 ~ 250rpm / 20mm Orbital Motion
	Speed Controller	Precise digital feedback microprocessor speed control
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable
	Sensor	Tachometer
Safety Device	Electrical	Electrical Leakage Breaker
Dimensions (mm)	Overall (W x D x H)	530 x 550 x 230
	Platform (W x D)	500 x 500
External Material		Steel 1T with Epoxy Powder Coating
Catalog No.		17150101

### Optional Accessories

	Catalog No.
Flask holder platform; Size adjustable from 200ml ~ 300ml x 20ea	17150111

## Multi Shakers **LMS Series**

This environmentally-controlled chamber is designed to culture dozens, and even hundreds of samples on up to four independently-controlled shakers. Heavy-duty shakers are ordered separately to satisfy specific purpose. The system includes programmable regulation of heat, refrigeration and humidification as standard; photosynthetic operation is optional.

### Features:

- Control 4 shaker in different speed.
- Set the 4 shaker in narrow area.
- Easy assemble and disassemble.
- Strong rack prevent from vibration.



**LMS-203 A, B, C & D**

### Technical Specifications:

MODEL	LMS-203A	LMS-203B	LMS-203C	LMS-203D
Composition	LMS 203A x 4 Sets	LMS 203B x 4 Sets	LMS 202C x 4 Sets	LMS 202D x 4 Sets
Dimension (mm)	1050 x 750 x 2100 [H]	750 x 550 x 2100 [H]		
Max. / Min. Speed	350 / 10RPM			
Drive System	Belt less Direct Drive			
Display	Digital Display			
Motor	Brushless DC Motor			
Power	220V, 60Hz			
Catalog No.	17110401	17110402	17110403	17110404

## Multi Spin Shaker **LMSS Series**

Multi Spin Shakers provides a new generation of multifunctional mixing device with several motion types in one instrument substantially increasing the options and effectiveness of sample preparation for the examined materials thus allowing adjustment with mixing procedure. LMSS Series is ideal for variety of applications in modern life science laboratories for hybridization reactions, cell growing, gel washing, soft extraction and homogenization of biological components in solutions, in diffusion processes.

### Features:

- Brushless induction drive motors are maintenance-free and quiet even at high speeds.
- CFC free refrigeration
- Beltless system ensures low noise levels and is maintenance-free.
- The unit is designed to emit low noise levels at all operating speeds.
- Different speeds controller simultaneously.
- Precise temperature controlling with PID temperature controller.
- Safety : Auto thermal sensor, Auto current sensor.
- CE and ISO Certified.



LMSS-8480 A, B, C, D & E

### Technical Specifications:

MODEL	LMSS-8480A	LMSS-8480B	LMSS-8480C	LMSS-8480D	LMSS-8480E
Max Speed			350RPM		
Min Speed			10RPM		
Motion			Orbital		
Drive System			Belt less Direct Drive		
Motor			Brushless DC Motor		
Display			Digital Display		
Temp. Range	10°C to 60°C		Ambient +5°C to 60°C		10°C to 60°C
Shaker	4 Shakers	2 Shaker	4 Shakers	2 Shakers	4 Shakers
Dimension [IN]mm	650x700x1950[H]	650x700x1000[H]	650x700x1950[H]	650x700x1000[H]	650x700x820[H] x 2 Chamber
Dimension [OUT]mm	1370x800x1950[H]	1370x800x1250[H]	1370x800x1950[H]	1370x800x1250[H]	1370x800x2000[H]
Capacity	250ml x 100EA	250ml x 50EA	250ml x 100EA	250ml x 50EA	250ml x 100EA
Power	220V, 6.5A, 60Hz	220V, 6A, 60Hz	220V, 1.2A, 60Hz	220V, 1A, 60Hz	220V, 1.3A, 60Hz
Catalog No.	17110201	17110202	17110203	17110204	17110205

### Accessories :

Universal Flask Holder	100ml x 50EA	Cat. No. 17110221
	500ml x 50EA	Cat. No. 17110222
	1000ml x 15EA	Cat. No. 17110223
	2000ml x 6EA	Cat. No. 17110224

## Orbital Type Giant Shaker **LGS 203A**

### Technical Specifications:

MODEL	LGS-203A
Speed Range	20-200 RPM
Speed Control	Microprocessor Control
Display	Digital Display
Motion	Orbital
Drive System	Inverter Drive Motor System
Capacity	250ml Flask x 220EA
Plate Dimensions (mm)	1000 x 1000 x 2 stage
Stage Height (mm)	420
Material	Body Support Steel plate with powder coating SUS 304
Power	220V, 1.5KW, 60Hz
Catalog No.	17110501



LGS-203 A

## Programmable Shaker **LPS Series**

A new range of Programmable Shakers is the latest addition to the range of laboratory equipment. This new product combines the important feature of large load capability and rugged reliability with optimum flexibility.

### Features:

- Brushless induction drive motors are maintenance-free and quiet even at high speeds.
- Beltless system ensures low noise levels and is maintenance-free.
- Allows up to 4 different programs within one run. Indispensable in laboratories requiring different and complicated tasks.
- Speed and Timer settings can be input through an optional remote control device.

A microprocessor based PID (Proportional Integral Derivative) temperature controller

- provides accurate and stable temperature control.
- LCD Panel with bright backlight displays current and set temperatures clearly.
- High quality key pad ensures easy setting. Each input is confirmed by a beep.

Many accessories are available to expand the functionality of the Incubator.

Small footprint conserves valuable bench space. Smooth, quiet running even at the highest speed.



**LPS-8480 A & B**

### Technical Specifications:

MODEL	LPS-8480A	LPS-8480B
Temperature Range	15°C to 60°C	Ambient +5°C to 60°C
Temperature Control		Digital PID controller
Speed Range		10 - 350 RPM
Programmability		4 step program
Display		Back-lit LCD
Drive System		Belt less direct drive
Motor		Brushless DC Motor K-type
Input		Touch Pad
Working Mode		Normal, Step, Frequently, Delay start
Circulation Fan		3.5" convection fan x 2EA
Dimension [IN] mm		510 x 530 x 400 [H]
Dimension [OUT] mm		515 x 730 x 720 [H]
Lid		Acrylic Blue I
Safety Device		Over temp. protector, Over load protector
Standard Plate		250ml x 25EA
Power	220V, 5A, 60Hz	220V, 2.3A, 60Hz
Catalog No.	17110101	17110102

### Optional Accessories

		Catalog No.
SPRING RACK	455 x 455mm	17110111
PLATE OF FLASK	100ml x 36EA	17110112
	250ml x 25EA	17110113
	500ml x 16EA	17110114
	1000ml x 9EA	17110115
	2000ml x 4EA	17110116

## General Incubator **LGI-050T Series**

Ideal for bacterial, fungal, cell and tissue culture and incubation temperature range from ambient +5°C to 70°C.



**LGI-050 T**

### Features:

- Round cornered chamber to protect contamination and easy to clean.
- Eye level door mounted controller for easy access and check operating status.
- Transparent tempered safety inner glass door.
- Height adjustable shelves by 25mm increment.
- Over temperature protection, alarm, timer, auto-tuning.

### Technical Specifications:

MODEL		LGI-050T
Chamber Volume (Capacity) (L)		50
No. of Rooms		1
Temperature	Range	Ambient + 5°C ~ 70°C
	Accuracy	± 0.1°C at 37°C
	Uniformity	± 0.5°C at 37°C
Heater		100Watt
Control	Main Controller	Digital PID Controller with Timer and Auto-Tuning
	Wait off Timer	mm:ss / hh:mm / Continuous Selectable
	Sensor	Pt 100Ω
Safety Device	Temperature	Hydraulic Over Temperature Protection Safety Device
	Electrical	Electrical Leakage Breaker
Dimensions (W x D x H) mm	Inner	400 x 300 x 400
	Outer	580 x 530 x 600
Shelves		PVC Coating Wire Shelf
Power		120VAC 60Hz / 220VAC 50/60Hz
Catalog No.		18150401



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