

**LABTRON**



# Orbital SHAKER

**LOS - SERIES**

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## Orbital Shaker

### Orbital Shaker LOS-A Series:

Our model of Orbital Shaker LOS-A Series is designed for shaking, mixing and aeration applications. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

#### Features

- Simple and digital type shaker
- Stable, quiet and continuous operation
- Variable speed and timer control
- Digital display of speed and time
- ISO 9001, ISO 13485 certified



#### Application

This product is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.

## Orbital Shaker LOS-A Series:

## Technical Parameters

Model	LOS-A10	LOS-A11	LOS-A12	LOS-A13
Maximum Load Capacity	2Kg of 20-150 rpm, 1Kg of 151-240 rpm	2Kg of 20-150 rpm, 1Kg of 151-240 rpm	2Kg of 20-150 rpm, 1Kg of 151-240 rpm	2Kg of 20-150 rpm, 1Kg of 151-240 rpm
Platform Dimension	230x230mm	280x280mm	230x230mm	280x280mm
Shaking Speed Range	20-240rpm			
Shaking Orbit	20mm			
Temperature Range	None			
Display	-		Digital	
Timer Range	0-30min mechanical timer		99h 59min digital timer	
Shaking Motion	Orbital			
Operation	Continuous/Timed			
Overall Dimension	260x295x140mm			
Weight	4.5Kg	4.8Kg	4.7Kg	5Kg
Power Supply	220V, 60Hz			



## Orbital Shaker

### Orbital Shaker LOS-B Series:

Model of Labtron Orbital Shaker LOS-B Series is designed for shaking, mixing and aeration applications. It is compact with micro-computer control technology. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

#### Features

- Adjustable speed control provides gentle to vigorous agitation
- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Audio alarm signals program completion
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers



#### Application

This product is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.

## Orbital Shaker LOS-B Series:

## Technical Parameters

Model	LOS-B10	LOS-B11	LOS-B12
Maximum Load Capacity	2Kg		
Shaking Speed Range	50-350rpm	50-300rpm	50-250rpm
Shaking Orbit	10mm	20mm	30mm
Temperature Range	4-45°C		
Display	LED		
Timer Range	1min-99h 59min		
Shaking Motion	Orbital		
Operation	Continuous/Timed		
Overall Dimension	280x260x90mm		
Weight	7.5Kg		
Power	50W		
Power Supply	230V, 60Hz		

## Orbital Shaker

### Orbital Shaker LOS-C Series:

Model of Labtron Orbital Shaker LOS-C Series are well designed, providing a long working life even under repeated and continuous use. These versatile orbital shakers operate with a 10-mm diameter orbital action, with a shaking speed ranging from 100 rpm to 500 rpm. A wide range of platforms is available, making them ideal for use with culture flasks, Petri dishes, Erlenmeyer flasks, bottles and other vessels.

#### Features

- Compact space-saving design fits easily in incubator and refrigerator
- Simultaneous display of speed, timer and operating mode
- Electronic time switching clock controls time or continuous operation mode
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Over speed detection and protection
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers.
- RS232 interface enables data logging & computer control



#### Application

This product is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



## Orbital Shaker LOS-C Series:

## Technical Parameters

Model	LOS-C10	LOS-C11	LOS-C12
Maximum Load Capacity	3Kg	2.5Kg	7.5Kg
Platform Dimension	240x240mm	240x240mm	320x320mm
Shaking Speed Range	0-200rpm	100-800rpm	100-500rpm
Shaking Orbit	20mm	4mm	1.0mm
Temperature Range	4-40°C		
Display	Analog	LED	
Timer Range	None	1-1199min	
Shaking Motion	Orbital		
Operation	Continuous	Continuous/Timed	
Overall Dimension	330x270x110mm	340x300x100mm	420x370x100mm
Weight	3.1Kg	8.1Kg	13.5Kg
Power	30W		
Power Supply	240V, 60Hz		

## Orbital Shaker

### Orbital Shaker LOS-D Series:

Our model of Orbital Shaker LOS-D Series is designed for shaking, mixing and aeration applications. It is equipped with microprocessor control technology and a long lasting brushless motor that enables quiet operation and consistent performance. The multi-functional shaking system is suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

#### Features

- Multi-functional shaking system
- Compact space-saving design fits easily in incubator and refrigerator
- Adjustable speed control provides gentle to vigorous agitation
- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Audio alarm signals program completion
- Accommodate a variety of platforms, non-slip rubber mat, conical flasks and other sample containers



#### Application

This product is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.



## Orbital Shaker LOS-D Series:

## Technical Parameters

Model	LOS-D10	LOS-D11	LOS-D12
Maximum Load Capacity	2.5Kg	3Kg	8Kg
Platform Dimension	270x230mm	270x230mm	(LFP-03 and LFP-04) 320x270x20mm, (LUP-03 and LUP-04) 400x280x133mm
Shaking Speed Range	50-250rpm	50-300rpm	50-250rpm
Shaking Orbit	20mm	10mm	10, 15, 20mm available
Temperature Range	Ambient +5-40°C		
Display	LED		
Timer Range	1min-99h 59min		
Shaking Motion	Orbital		
Operation	Continuous/Timed		
Overall Dimension	280x270x110mm	280x270x110mm	320x350x145mm
Weight	7.2Kg	7.2Kg	17.5Kg
Power	50W		
Power Supply	DC 24V		240V, 60Hz

## Orbital Shaker

### Orbital Shaker LOS-E Series:

Model of Labtron Orbital Shaker LOS-E Series is designed for shaking, mixing and aeration applications. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

#### Features

- Stainless steel platform and clamps
- Easy to use continuous operation
- Suitable for carrying heavy load
- Brushless DC motor ensures maintenance-free, reliable and quiet operation



#### Application

This product is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.

## Orbital Shaker LOS-E Series:

## Technical Parameters

Model	LOS-E10	LOS-E11	LOS-E12	LOS-E13
Platform Dimension	340x340mm	500x500mm	600x600mm	1060x600mm
Shaking Speed Range	10-250rpm			
Shaking Orbit	25mm			
Temperature Range	No heating function			
Display	Analog			
Timer Range	None			
Shaking Motion	Orbital			
Operation	Continuous			
Overall Dimension	380x410x195mm	560x600x225mm	660x680x225mm	1120x700x225mm
Weight	45Kg	45Kg	45Kg	45Kg
Power Supply	220V, 60Hz			



## Orbital Shaker

### Orbital Shaker LOS-F Series:

Our model Orbital Shaker LOS-F Series is designed for shaking, mixing and aeration applications. It is compact with micro-computer control technology. It features adjustable speed control that provides gentle to vigorous agitation. The low noise and stable operation makes it suitable for use in different laboratories like molecular biology, microbiology, immunology, chemistry, etc.

#### Features

- Easy to clean anti-eroding stainless steel or alnico plate
- Microprocessor based PID controller with timing function
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Audio alarm signals program completion
- Smooth start and stop system prevents liquid spillage
- Programmable controller with LCD screen
- Heating plate function
- Over-temperature alarm



#### Application

This product is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.

## Orbital Shaker LOS-F Series:

## Technical Parameters

Model	LOS-F10	LOS-F11	LOS-F12	LOS-F13
Platform Dimension	280x270mm		350x260mm	400x340mm
Shaking Speed Range	50-250rpm		20-300rpm	
Shaking Orbit	10mm	20mm		
Temperature Range	No heating function			
Display	Analog			
Timer Range	1-9999min			
Shaking Motion	Orbital			
Operation	Continuous/Timed			
Power	100W	100W	110W	120W
Power Supply	220V, 60Hz			

## Orbital Shaker

### Orbital Shaker LOS-F Series:

#### Technical Parameters

Model	LOS-F14	LOS-F15	LOS-F16	LOS-F17
Platform Dimension	450x450mm	350x260mm	380x430mm	400x340mm
Shaking Speed Range	20-300rpm	20-250rpm	20-250rpm	20-300rpm
Shaking Orbit	20mm			
Temperature Range	No heating function	RT-5-100°C	RT-5-100°C	RT+5-65°C
Display	Analog	LCD		Analog
Timer Range	1-9999min			
Shaking Motion	Orbital			
Operation	Continuous/Timed			
Power	130W	300W	400W	450W
Power Supply	220V, 60Hz			



### Orbital Shaker Double Decker LODS-A Series:

Model of Labtron Orbital Shaker LODS-A Series features a well-designed and robust Double Decker to increase capacity. The three eccentric shaft balancing drive ensures that the sample on platform shakes with the same speed. The unique design of speed monitoring circuit provides long working life under repeated and continuous use. A wide range of platforms available make them ideal for use with culture flasks, bottles and other vessels.

#### Features

- Easy to clean stainless steel platform
- Available in monolayer
- Three eccentric shaft balancing drive to ensure uniform sample shaking speed
- Unique speed monitoring circuit design
- Microprocessor controller with timer function for reliable temperature control
- Menu-driven easy to use interface
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Slow start up function prevents liquid spillage
- Data retrieval on power failure



#### Application


Our product Orbital Shaker is suitable for cell culturing, staining/de-staining and general mixing in microbiology, chemistry, immunology, biochemistry, molecular biology, biopharmaceutical and biomedical laboratories.

## Orbital Shaker

### Orbital Shaker Double Decker LODS-A Series:

#### Technical Parameters

Model	LODS-A10	LODS-A11	LODS-A12	LODS-A13
Platform Dimension	800x600mm	800x600mm	920x640mm	920x640mm
Shaking Speed Range	20-300rpm	20-300rpm	20-300rpm	20-300rpm
Shaking Orbit	30/50mm			
Temperature Range	RT +5-65°C	RT +5-65°C	4-65°C	4-65°C
Display	LCD			
Timer Range	0-500h			
Shaking Motion	Orbital			
Operation	Continuous/Timed			
Overall Dimension	900x680x680mm		1060x850x680mm	
Power	400W	400W	400W	400W
Power Supply	220V, 60Hz			



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