

Laboratory Shakers



Laboratory Shakers

Iris Orbital/Reciprocating Shakers are designed to stir or mix liquid samples in a circular, swirling motion, creating a vortex effect inside the sample container, which is ideal for a number of general lab applications including mixing reagents. Our orbital shakers offer user-friendly operating and safety features for reliable shaking of glassware and other lab vessels of various shapes and sizes. The variable speed control allows gentle to vigorous agitation and aeration, while the digital timer function allows for automatic run at any specific length of time. These laboratory shakers have a large selection of optional features and accessories available to meet the need of any application.

Iris Shakers allow multiple samples to be stirred simultaneously in identical conditions, which is perfect for a number of general mixing applications. We offer a large selection of shakers designed to stir liquid samples of various different sizes at any controlled speed. The orbital shakers feature a rectangular platform that moves in a circular motion to aerate samples, which are held down by ratcheting clamps, magnetic clamps or a non-slip, rubber mat. The shaking incubators feature a rectangular platform that moves in a side-to-side motion within an enclosed chamber providing a controlled environment to agitate samples, which are held down by magnetic clamps or a non-slip, rubber mat. Thermal shakers feature interchangeable block platforms that move in a circular motion while heating up the samples.

Iris incubator shakers are designed to meet any application requires agitation or shaking under a strict temperature environment. Our shaking incubators provide an orbital or reciprocating motion at variable speeds while maintaining precise temperature control and uniformity. They feature user-friendly controls with large digital displays, a large capacity in a durable, compact design and a sophisticated temperature monitoring system. These incubator shakers can accommodate test tubes, flasks, petridishes and other commonly used lab materials and have a variety of optional features and accessories to meet any application requirements.

Additional features for all of these units include intuitive controls with a digital display, a robust construction in a compact, space-saving design and smooth running conditions with variable speeds. Our laboratory shakers allow for safe, efficient and easy-to-use operation while reproducing accurate, controlled speeds with every use.

Iris shakers and shaking incubators range includes following;

- ◆ Orbital Shaker OS-1000 Series
- ◆ Double Platform Orbital Shaker OS-1000D Series
- ◆ Orbital Shaker OS-3000 Series
- ◆ Benchtop Shaking Incubator TS-1000 Series
- ◆ Shaking Incubator LS-1000 Series
- ◆ Double Door Shaking Incubator DS-1000 Series
- ◆ Orbital Shaking Incubator LS-2000
- ◆ Dual shaking Incubator DS-2000
- ◆ Chest Type Shaking Incubator CS-1000
- ◆ Large Capacity Upright Shaking Incubator LS-3000



Orbital Shaker OS-1000 Series

The OS-1000 Series Orbital Shaker includes high performance models with 3 unique platform designs. All OS-1000 Shakers are fully adaptable to almost any laboratory applications for any type and size of vessel. New user-friendly touch screen control panel is easy to read with a bright clear digital display.

The OS-1000 orbital shakers are microprocessor PID control enabling reproducible results every time.

Maintenance-free motor generates smooth and powerful shaking motion over a wide speed range and under heavy workloads. Built-in protection system from over-current, stalled platform, and audible/visible alarms for shaking speed deviation keep the unit worry free. RS-232 and USB ports provide option for external control and data collection.

- ◆ Dual-action shaking motion--select either orbital or reciprocating
- ◆ Smooth start/stop function helps prevent spills from flasks or tubes
- ◆ Platform stops where it starts, making repetitive tasks easy
- ◆ Automatic shaking speed adjustment if an unbalanced or excessive workload is detected

Digital display and programmable control works with an orbital shaking motion. The loading capacity is 15 kg on a shaking platform of 400 x 300 mm. The stroke of 17 mm and the shaking speed of 30 - 420 rpm are additional features of the shaker KS 15 A control.

- ◆ Touch-screen panel.
- ◆ LED 2-screen digital display
- ◆ Actual and setting speed
- ◆ Shaking smoothly and quietly
- ◆ Suitable for carrying heavy duty
- ◆ With variable speed, timer control and continuous operation
- ◆ Memory of power cut ,uses brushless AC motor
- ◆ Differential clamps available



Technical Specifications

Model No.	OS-1400	OS-1600	OS-1900
Control Panel	Digital		
Shaking	20~250 rpm		
Shaking	25 mm	25 mm	50 mm
Timer	999 h / 999 min / 999 sec		
Shaking Plate	400 x 300 mm	600 x 480 mm	960 x 600 mm
Outside Dimension	400 x 300 x 220 mm	600 x 480 x 220 mm	965 x 610 x 220 mm
Net Weight	16 kg	31 kg	98 kg
Electrical Requirement	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54005051	54005102	54005151
Electrical Requirement	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54005052	54005102	54005152

Flask Capacity

Flask Clamps are of stainless steel construction for added strength and safety. Mix and match different size clamps on same platform or all same size. Includes mounting screws.

Flask Clamp	125ml	250ml	500ml	1000ml	2000ml	3000ml	4000ml	5000ml
TS-520D	20	12	6	4	2	1	1	1
TS-560D	48	30	20	12	8	6	6	4
TS-580D	96	60	40	24	15	15	12	8

Double Platform Orbital Shaker OS-1000D Series

- ◆ Touch-screen panel. LED 2-screen digital display
- ◆ Actual and setting speed
- ◆ Shaking smoothly and quietly
- ◆ Suitable for carrying heavy duty
- ◆ With variable speed, timer control and continuous operation
- ◆ Memory of power cut, uses brushless AC motor
- ◆ Differential clamps available
- ◆ Double platform for large capacity



Technical Specifications

Model No.	OS-1400D	OS-1600D	OS-1900D
Control Panel	Digital		
Shaking Speed	20~150 r.p.m		
Shaking Width	25 mm		
Timer	999 h / 999 min / 999 sec		
Shaking Plate	400 x 300 2 pcs	580 x 460 2 pcs	960 x 600 2 pcs
Outside Dimension	400 x 300 x 500mm	600 x 480 x 500 mm	960 x 600 x 500 mm
Weight	20 kg	60 kg	107 kg
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54010051	54010101	54010151
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54010052	54010102	54010152

Flask Capacity

Flask Clamp	125ml	250ml	5000ml
TS-520D	40	24	12
TS-560D	96	60	40
TS-580D	192	120	80



Orbital Shaker OS-3000 Series (WS-100D/150D/200D)

Iris Orbital Shaker OS-3000 are designed to perform two different shaking functions: back and forth, and orbital. Adjustable shaking speed and range. Timer function for maximum flexibility.

- ◆ Corrosion resistant stainless steel housing
- ◆ Easy to clean and maintain
- ◆ Large mounting surface and big load capacity of up to 15 kg
- ◆ Ideal for vessels with more than 250 ml capacity, like round flasks, Erlenmeyer flasks, culture bottles, or culture bottles
- ◆ Widely used for bacterial cultures, fermentation, hybridization, biochemical reactions, enzyme or tissue research



Multi-function Shaking System

You can multi-set the shaking motions in six ways of Forward/ Backward/ Pause/ Mix & match upon your various laboratory purposes.

Forward Continuous Shaking



Backward Continuous shaking



Forward Shaking & Pause



Backward Shaking & Pause



Forward & Backward Shaking



Forward/Backward Shaking & Pause



Technical Specifications

Model	OS-3050	OS-3100	OS-3150	OS-3200
Display and Control	LED Digital Display / On-Touch Control			
Vibration Style	Back and Forth / Orbital			
Frequency of Vibration (rpm)	10 - 300	10 - 300	10 - 300	10 - 300
Amplitude of Vibration (mm)	20	30 (Standard); 20, 40 (Optional)		
Speed Adjustment Steps (rpm)	± 1			
Maximum Timer Length (min)		999 hr 59 min; Pause: Max. 99 min, Min. 1 min; Forward-and-backward: Max. 9 min 50 sec, Min. 10 sec		
Material		Host: stainless steel Working Plate: Aluminium		
Maximum Load (including clamps) (kg)		7.5	15	30
Motor Input / Output power (W)		45 / 10	70 / 19	140 / 38
Working Plate Dimension(W × D in mm)	320 × 260	350 × 350	450 × 450	755 × 481
Outside Dimension(W × D × H in mm)		410 × 490 × 160	510 × 595 × 160	820 × 610 × 152
Accessories	Carrier with Flexible Attachments , Carrier with Fixed Attachments, Carrier with Rubber Plate			
Order No.		200200A / B / C	200300A / B / C	200400A / B / C
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54015051	54015101	54015151	54015201
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54015052	54015102	54015152	54015202

Benchtop Shaking Incubator TS-1000 Series

- ◆ Inside material is SUS304 and outside body is powder painting.
- ◆ Touch Screen Panel .
- ◆ Overheat and over low protector, built-in circulating fan for temperature stability.
- ◆ With safety switch to stop shaking when opening door
- ◆ Tempered Safety Glass Window for operation view
- ◆ Uses brushless AC motor for long durability and stable performance of the shaking system.
- ◆ Shaking smoothly and quietly



Technical Specifications

Model	TS-1400	TS-1450	TS-1420
Type	Flip-up door		Upright
Temp. Range	Ambient +5 °C~70 °C		
Shaking Speed	20~250 r.p.m		
Temp. Accuracy	±0.10C		
Temp. Control	PID		
Temp. Display	LED		
Shaking Width	25 mm		
Timer	999 h / 999 min / 999 sec		
Shaking Plate Size	400 x 300 mm	450 x 450 mm	400 x 300 mm
Volume	66 L	102 L	65 L
Inside Dimension (WxDxH)	455 x 390 x 380 mm	500 x 540 x 380 mm	450 x 390 x 370 mm
Outside Dimension (WxDxH)	460 x 510 x 540 mm	510 x 650 x 540 mm	520 x 550 x 610 mm
Weight	30 kg	40 kg	50 kg
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54020051	54020101	54020151
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54020052	54020102	54020152

Flask Capacity:

Clamps	50ml	125ml	250ml	500ml	1000ml	2000ml
TS-1400	35	20	12	6	4	2
TS-1450	35	20	12	6	4	2
TS-1420	64	36	25	16	9	5



Incubator Shaker IS-3000

Applicable for fermentation processes with high demands on the precision of the shaking frequency, bacteria incubation, hybridization, life science, pharmacy, medical science, food industry, chemistry, biology, and other laboratory environments.

- ◆ Applicable for fermentation processes with high demands on the precision of the shaking frequency, bacteria incubation, hybridization, life science, pharmacy, medical science, food industry, chemistry, biology, and other laboratory environments
- ◆ Orbital and reciprocate shaking functions
- ◆ Setting of the orbital shaking method (clock-wise or counter clock-wise), stopping behaviour, and operation time
- ◆ Intelligent control system, which maintains the operation speed and adjusts to load changes
- ◆ PID controller for temperature stability and safety protection
- ◆ Very good heating characteristics
- ◆ Ecologically friendly
- ◆ Easy to clean
- ◆ Shaking throw and speed adjustable
- ◆ Circulation process automatically stops upon opening the door
- ◆ In case of temperature overshooting an alarm sound is triggered and heating is cut off
- ◆ For the case of an unexpected power breakdown the incubator offers two working options: Automatic re-operation and automatic stop
- ◆ Broad range of available accessories



Technical Specifications

Model	IS-3300	IS-3300R	IS-3600	IS-3600R
Volume (L)	53	53	53	53
Temperature Range (°C)	Ambient +5 ~ 60°C	Ambient +5 ~ 60°C	Ambient +5 ~ 60°C	Ambient +5 ~ 60°C
Temperature Accuracy (°C)	±0.1 (38°C)	±0.1 (38°C)	±0.1 (38°C)	±0.1 (38°C)
Temperature Stability (°C)	±1.0 (38°C)	±1.0 (38°C)	±1.0 (38°C)	±1.0 (38°C)
Temperature Controller	PID automatic regulation	PID automatic regulation	PID automatic regulation	PID automatic regulation
Display	Digital Display	Digital Display	Digital Display	Digital Display
Control Type	Touch Control	Touch Control	Touch Control	Touch Control
Temperature Heater	Heating Plate, 600W	Heating Plate, 600W	Heating Plate, 600W	Heating Plate, 600W
Temperature Timer	10sec ~999hr 59min 59sec	10sec ~999hr 59min 59sec	10sec ~999hr 59min 59sec	10sec ~999hr 59min 59sec
Shaker Controller	PID automatic regulation	PID automatic regulation	PID automatic regulation	PID automatic regulation
Shaker Power Unit	Brushless motor	Brushless motor	Brushless motor	Brushless motor
Shaker Methods	Clockwise, Counter-clockwise, forth-back, interrupted,			
Shaker Shaking Throw (mm)	20, 30 (standard), 40	20, 30 (standard), 40	20, 30 (standard), 40	20, 30 (standard), 40
Shaker Speed (rpm)	10~300	10~300	10~300	10~300
Shaker Stability (rpm)	±1 (150rpm)	±1 (150rpm)	±1 (150rpm)	±1 (150rpm)
Platform Dimensions (W × D) mm	330 x 330	330 x 330	410 x 410	410 x 410
Inside Dimensions (W × D × H) mm	410 x 410 x 320	410 x 410 x 320	510 x 510 x 320	510 x 510 x 320
Outside Dimensions (W × D × H) mm	440 x 740 x 625	440 x 740 x 625	540 x 850 x 625	540 x 850 x 625
Max. Load (kg)				
Net Weight (kg)	10	10	15	15
Gross Weight (kg)	74	74	91	102
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54025051	54025101	54025151	54025201
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54025052	54025102	54025152	54025202



Accessories

Model	Description	Additional Description
54001A01	Sticky Plate 320 x 260 mm Sticky Plate The Wiggins Sticky Plate can be loaded with any kind of vessel with a smooth base. Even at a speed of up to 350 rpm the vessel sticks to the plate. Other vessels, like e.g. microtitre plates can be shaken on the Wiggins Sticky Plate as well. However, only up to a speed of 220 rpm.	Suitable for Orbital Shakers
54001A02	Sticky Plate 350 x 350 mm	Suitable for Orbital Shakers
54001A03	Sticky Plate 450 x 450 mm	Suitable for Orbital Shakers
54001A04	Sticky Plate 755 x 481 mm	Suitable for Orbital Shakers
54002A01	Universal Tray 320 x 260 mm	Suitable for Orbital Shakers
54002A02	Universal Tray 350 x 350 mm	Suitable for Orbital Shakers
54002A03	Universal Tray 450 x 450 mm	Suitable for Orbital Shakers
54002A04	Universal Tray 755 x 481 mm	Suitable for Orbital Shakers
54003A01	Deep Well Plates for Beakers 50ml	Suitable for Universal Tray
54003A02	Deep Well Plates for Beakers 100ml	Suitable for Universal Tray
54003A03	Deep Well Plates for Beakers 250ml	Suitable for Universal Tray
54003A04	Deep Well Plates for Beakers 300ml	Suitable for Universal Tray
54003A05	Deep Well Plates for Beakers 500ml	Suitable for Universal Tray
54003A06	Deep Well Plates for Beakers 1L	Suitable for Universal Tray
54003A07	Deep Well Plates for Beakers 2L	Suitable for Universal Tray
54003A08	Deep Well Plates for Beakers 2.8L	Suitable for Universal Tray
54003A10	Deep Well Plates for Beakers 4L	Suitable for Universal Tray
54004A01	Deep Well Plates for Beakers 6L	Suitable for Universal Tray
54004A01	Separatory Funnel Holders 250ml	Separatory Funnel Holders; Suitable for Universal Tray
54004A02	Separatory Funnel Holders 500ml	Separatory Funnel Holders; Suitable for Universal Tray
54004A03	Separatory Funnel Holders 1L	Separatory Funnel Holders; Suitable for Universal Tray
54004A04	Separatory Funnel Holders 2L	Separatory Funnel Holders; Suitable for Universal Tray
54005A01	Test Tube Holders - 86 test tubes 8 mm diameter	Suitable for Universal Tray
54005A02	Test Tube Holders - 86 test tubes 10 mm diameter	Suitable for Universal Tray
54005A03	Test Tube Holders - 58 test tubes 12 mm diameter	Suitable for Universal Tray
54005A04	Test Tube Holders - 58 test tubes 14 mm diameter	Suitable for Universal Tray
54005A05	Test Tube Holders - 32 test tubes 16 mm diameter	Suitable for Universal Tray
54005A06	Test Tube Holders - 19 test tubes 25 mm diameter	Suitable for Universal Tray
54005A07	Test Tube Holders - 10 test tubes 35 mm diameter	Suitable for Universal Tray
54006A01	Multi-Purpose Tray for Orbital Shakers OS-3050	Suitable for Orbital Shakers
54006A02	Multi-Purpose Tray for Orbital Shakers OS-3100	Suitable for Orbital Shakers
54006A03	Multi-Purpose Tray for Orbital Shakers OS-3150	Suitable for Orbital Shakers
54006A04	Multi-Purpose Tray for Orbital Shakers OS-3200	Suitable for Orbital Shakers
54007A01	Adjustable Bar Tray for Orbital Shakers OS-3050	Suitable for Orbital Shakers
54007A02	Adjustable Bar Tray for Orbital Shakers OS-3100	Suitable for Orbital Shakers
54007A03	Adjustable Bar Tray for Orbital Shakers OS-3150	Suitable for Orbital Shakers
54007A04	Adjustable Bar Tray for Orbital Shakers OS-3200	Suitable for Orbital Shakers
54008A01	Rubber Surface Tray for Orbital Shakers OS-3050	Suitable for Orbital Shakers
54008A02	Rubber Surface Tray for Orbital Shakers OS-3100	Suitable for Orbital Shakers
54008A03	Rubber Surface Tray for Orbital Shakers OS-3150	Suitable for Orbital Shakers
54008A04	Rubber Surface Tray for Orbital Shakers OS-3200	Suitable for Orbital Shakers
54009A01	Multi-Pore Holders - Multi-Layer Holder for OS-3000 Series Orbital shakers	Suitable for Orbital Shakers
54009A02	Multi-Pore Holders - Single-Layer Single-Position Holder for OS-3000 Series Orbital shakers	Suitable for Orbital Shakers
54009A03	Multi-Pore Holders - Single-Layer Three-Position Holder for OS-3000 Series Orbital shakers	Suitable for Orbital Shakers
54009A04	Multi-Pore Holders - Single-Layer Four-Position Holder for OS-3000 Series Orbital shakers	Suitable for Orbital Shakers



Incubator Shaker LS-1000 Series

- ◆ Inside material is SUS304 and outside body is powder painting
- ◆ Install light to view inside clearly
- ◆ The compressor will be delayed to start working if power cut and with timer for defrost. Using environmental protection cold-media R134a.
- ◆ With safety switch to stop shaking when opening door
- ◆ Three-point bearing transmission is adopted suitable for heavy loads and continuous duty.
- ◆ Transparent glass observation window.
- ◆ Uses brushless AC motor for long durability and stable performance of the shaking system.
- ◆ Overheat and over low protector, built-in circulating fan for temperature stability.



Technical Specifications

Model	LS-1150	LS-1150R	LS-1150D	LS-1150DR
Platform	Single		Double	
Temp. Range	Ambient +5C~0°C	0°C~70°C	Ambient +5C~70°C	0°C~70°C
Temp. Accuracy	±0.1°C			
Temp. Control	PID temperature control			
Temp. Display	LED digital display			
Shaking Speed	20~300 r.p.m		20~150 r.p.m	
Shaking Width	25 mm			
Timer	999 h / 999 min / 999 sec			
Heater	900 W			
Volume	150 L		150 L	
Shelf	1 (Adjustable)		N/A	
Refrigerator	N/A	1/4 HP	N/A	1/4 HP
Shaking Plate Size	480 x 380 mm			
Inside Dimension (WxDxH)	600 x 500 x 500 mm			
Outside Dimension (WxDxH)	680 x 690 x 860 mm			
Weight (Approx.)	85 kg	98 kg	90 kg	100 kg
Net Weight	85 kg	98 kg	90 kg	100 kg
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54030051	54030101	54030151	54030201
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54030052	54030102	54030152	54030202

Flask Capacity:

Model / Size	125ml	250ml	500ml	1000ml	2000ml	3000ml	4000ml	5000ml
LS-1150/1150R	30	20	12	6	5	4	2	1
LS-1150D/1150DR	60	40	24	---	---	---	---	---



Dual Shaking Incubator LS-2000

- ◆ Inside material is SUS304 and outside body is powder painting
- ◆ The compressor will be delayed to start working if power cut and with timer for defrost. Using environmental protection cold-media R134a.
- ◆ Three-point bearing transmission is adopted suitable for heavy loads and continuous duty.
- ◆ Internal light provide clear chamber visibility
- ◆ Tempered Safety Glass Window for operation view
- ◆ Uses brushless AC motor for long durability and stable performance of the shaking system.
- ◆ Touch Screen panel
- ◆ With safety switch to stop shaking when opening door
- ◆ Each machine operates independently if required.
- ◆ Overheat and over low protector, built-in circulating fan for temperature stability.



Technical Specifications

Specifications	LS-2570D	LS-2570RD	LS-2575D	LS-2575RD
Platform	Single		Double	
Temp. Range	Ambient +5C~0°C	0°C~70°C	Ambient +5C~70°C	0°C~70°C
Temp. Accuracy	±0.1°C			
Temp. Control	PID temperature control			
Temp. Display	LED 2-screen digital display actual and setting temperature			
Shaking Speed	20 to250 r.p.m.		20 to150 r.p.m.	
Shaking Width	25 mm			
Timer	999 h / 999 min / 999 sec			
Heater	900W each chamber			
Refrigerator	N/A	1/4 HP	N/A	1/4 HP
Volume (liters)	175*2			
Shaking Plate Size	640x440mm			
Inside Dimension (WxDxH)	700x500x500 mm			
Outside Dimension (WxDxH)	780x690x1720 mm			
Shelf (adjustable)	1		N/A	
Weight (Approx.)	160kg	170kg	170kg	180kg
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54035051	54035101	54035151	54035201
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54035052	54035102	54035152	54035202

Flask Capacity:

Model Flask Clamps	125ml	250ml	500ml	1000ml	2000ml	3000ml	4000ml	5000ml
LM-2570RD(RD)	40	28	20	12	6	6	2	---
LM-2575D(RD)	40*4sets	28*4sets	20*4sets	---	---	---	---	---



Double Door Shaking Incubator DS-1000 Series

- ◆ Inside material is SUS304 and outside body is powder painting
- ◆ The compressor will be delayed to start working if power cut timed defrosting, using environmental cold media R134a
- ◆ Internal light provide clear chamber visibility
- ◆ Tempered Safety Glass Window for operation view
- ◆ With safety switch to stop shaking when opening door
- ◆ Touch Screen panel
- ◆ Uses brushless AC motor for long durability and stable performance of the shaking system.
- ◆ Overheat and over low protector, built-in circulating fan for temperature stability.
- ◆ Three-point bearing transmission is adopted suitable for heavy loads and continuous duty



Technical Specifications

Model	DS-1300D	DS-1300RD
Temp. Range	Ambient+50C~700C	00C~700C
Temp. Accuracy	±0.10C	
Temp. Control	PID	
Temp. Display	LED	
Shaking Speed	20~250 r.p.m	
Shaking Width	50 mm	
Timer	999 h / 999 min / 999 sec	
Heater	1200 W	
Illumination	Fluorescent lamp 20 W	
Refrigerator	N/A	1/3 HP
Volume	300 L	
Shaking Plate Size	900 x 500 mm	
Inside Dimension (WxDxH)	1000 x 600 x 500 mm	
Outside Dimension (WxDxH)	1380 x 690 x 890 mm	
Shelf	1 (Adjustable)	
Weight	200 kg	280 kg
Electrical Requirements	110V/60Hz	110V/60Hz
Catalogue No.	54040051	54040101
Electrical Requirements	220V/50Hz	220V/50Hz
Catalogue No.	54040052	54040102

Flask Capacity:

Flask Clamp	125ml	250ml	500ml	1000ml	2000ml	3000ml	4000ml	5000ml
LM-2530D (RD)	66	50	32	18	10	10	3	3



Chest Type Shaking Incubator CS-1000

- ◆ Inside material is SUS304 and outside body is powder painting
- ◆ Screen-touch panel
- ◆ Install light to view inside clearly
- ◆ The compressor will be delayed to start working if power cut and with timer for defrost. Using environmental protection cold-media R134a.
- ◆ With safety switch to stop shaking when opening door
- ◆ Three-point bearing transmission is adopted suitable for heavy loads and continuous duty.
- ◆ Transparent glass observation window.
- ◆ Uses brushless AC motor for long durability and stable performance of the shaking system.
- ◆ Overheat and over low protector, built-in circulating fan for temperature stability.



Technical Specification

Model No.	CS-1510D	CS-1510RD	CS-1530D	CS-1530RD
Temp. Range	Ambient+5°C~70°C	0°C~70°C	Ambient+5°C~70°C	0°C~70°C
Temp. Accuracy	±0.1°C			
Temp. Control	PID temperature control			
Temp. Display	LED digital display			
Shaking Speed	20~250 r.p.m			
Shaking Width	50 mm			
Timer	999 h / 999 min / 999 sec			
Heater	1200 W			
Illumination	Fluorescent lamp 20 W			
Refrigerator	N/A	1/4 HP	N/A	1/3 HP
Volume	205 L	205 L	381 L	381 L
Shaking Plate	600 x 480 mm		960 x 600 mm	
Inside Dimension (WxDxH)	680 x 560 x 540 mm		1040 x 680 x 540 mm	
Outside Dimension (WxDxH)	1010 x 640 x 870 mm		1370 x 760 x 870 mm	
Weight (Approx.)	160 kg	200 kg	270 kg	300 kg
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	54045051	54045101	54045151	54045201
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	54045052	54045102	54045152	54045202

Flask Capacity:

Flask Clamp	125ml	250ml	500ml	1000ml	2000ml	3000ml	4000ml	5000ml
LM-510D (R)	48	30	20	12	9	6	6	4
LM-530D (R)	96	60	40	24	15	15	12	8



Large Capacity Upright Shaking Incubator LS-3000

- ◆ Inside material is SUS304 and outside body is powder painting
- ◆ Install light to view inside clearly
- ◆ The compressor will be delayed to start working if power cut and with timer for defrost, using environmental protection cold-media R134a.
- ◆ With safety switch to stop shaking when opening door
- ◆ Three-point bearing transmission is adopted suitable for heavy loads and continuous duty.
- ◆ Tempered Safety Glass Window for operation view
- ◆ Brushless AC motor for long durability and stable performance
- ◆ Overheat and over low protector, built-in circulating fan for temperature stability.



Technical Specifications

Model No.	LS-3500	LS-3500R	LS-3500D	LS-3500RD	LS-3800	LS-3800D	LS-3800R	LS-3800RD
Platform	Single		Double		Single		Double	
Tempreture Range	Ambient +5C~0°C		Ambient +5C~0°C		Ambient +5C~0°C		Ambient +5C~0°C	
Temp. Range	(D) Ambient + 5°C~70°C / (RD) 0°C~70°C							
Temp. Accuracy	±0.1°C							
Temp. Control	Micro-computer PID temperature controller							
Temp. Display	LED 2-screen digital display actual and setting temperature							
Shaking Speed	20~250 r.p.m		20~150 r.p.m		20~250 r.p.m		20~150 r.p.m	
Shaking Width	50 mm							
Heater	999 h / 999 min / 999 sec							
	1600 W							
Illumination	Fluorescent lamp 20 W							
SHELF (Adjustable)	2		1		2		1	
Volume	560 L		560 L		834 L		834 L	
Refrigerator	N/A		1/3 HP		N/A		1/2 HP	
Shaking Plate Size	740 x 480 mm				960 x 600 mm			
Inside Dimension (WxDxH)	860 x 600 x 1100 mm				1100 x 690 x 1100 mm			
Outside Dimension (WxDxH)	940 x 800 x 1840 mm				1190 x 920 x 1840 mm			
Weight (Approx.)	280 kg				300 kg			
Electrical Requirements	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz	110V/60Hz
Catalogue No.	5405005-1	5405010-1	5405015-1	5405020-1	54050251	54050301	54050351	54050401
Electrical Requirements	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Catalogue No.	5405005-2	5405010-2	5405015-2	54050202	54050252	54050302	54050352	54050402

Flask Capacity:

Flask Clamp	125ml	250ml	500ml	1000ml	2000ml	3000ml	4000ml	5000ml
LM-590 (R)D	48	40	24	12	9	6	6	4
LM-595 (R)D	96	60	40	24	-	-	-	-
LM-600 (R)D	78	50	36	18	10	10	8	8
LM-605 (R)D	156	100	72	36	-	-	-	-





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