Incubator Shaker

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Labfirst Scientific Instruments (Shanghai) Co., Ltd.

Incubator Shaker

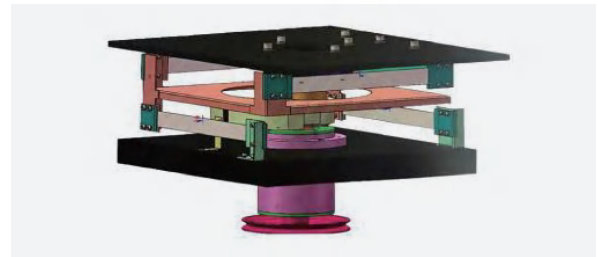Incubator shaker from Lab1st offers an optimal environment for your cell and microbial culturing needs.

We provides eight kinds of shaking incubator: stackable incubator shaker, desk-top incubator shaker, CO2 incubator shaker and so on, covering a wide range of applications in life science and microbiology.

With its compact footprint and sophisticated technology, our shaking incubator will definitely be your helpful cultivation tools in your labs.

Features >>>

Single-axis Balanced Drive

Compared to three-axis or five-axis drive, the single-axis balanced drive would largely reduce mechanical friction, noise, and deviation. The fully optimized oscillation balance system and counterweight device ensure gentle shaking and long life span.
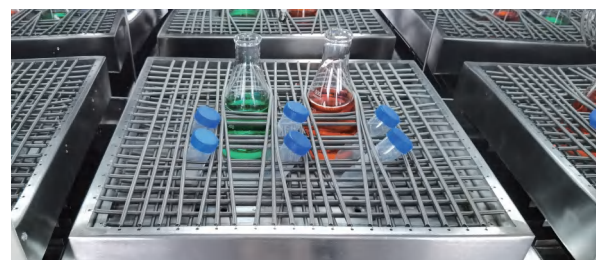

Safety Guarantee

Lab1st shaker incubator is CE and ISO certified. It is built with overspeed alarm, sensor fault detection, over temperature protector and electric leakage protection to better protect personnel, samples and the machine itself.

Versatile and User-friendly

With eight different types available, there's a perfect fit for every requirement. The P.I.D control mode ensures precise and accurate control over temperature, CO2 and humidity.

Meticulous Manufacturing Technique

The inner chamber is made of mirror SUS304 and the arc corner design makes it easy to clean. Servo motor and frequency conversion refrigeration technology are used to bring smooth and precise operation.

Product Type >>>

Stackable Incubator Shaker

The ISS series stackable incubator shaker(stack up to 2 or 3 units), boasting a compact footprint, defies expectations with its generous capacity.

Floor-stand Incubator Shaker

The ISF series floor-stand incubator shaker provides large capacity, enhanced stability, and advanced environmental control for high-throughput and large-scale laboratory applications.

Horizontal Incubator Shaker

The ISH series horizontal incubator shaker features uniform and efficient mixing across all samples.

High Speed Incubator Shaker

The ISHS series high speed incubator shaker serves as an efficient tool for high-throughput microplate culture, small cell culture, high-throughput screening.

Benchtop Incubator Shaker

With its ergonomic and compact design, the ISB series benchtop incubator shaker is a perfect choice for small-scale laboratory applications.

Benchtop Incubator Shaker (Water Bath)

The water bath benchtop incubator shaker offers a wide temperature range from ambient temperature to 100°C. It can shake the samples steadily while keeping a constant temperature.

CO2 Incubator Shaker

The ISC CO2 incubator shaker, with an accurate control over shaking, temperature, humidity and CO2 supply, creating an optimal environment for cell culture.

CO2 Incubator

Lab1st stackable CO2 incubator mimics the natural environment for growing cells, providing precise control over humidity, CO2 supply and humidity.

Stackable Incubator Shaker

ISS Series

Lab1st stackable incubator shaker, boasting a compact footprint, defies expectations with its generous capacity. It is perfect for applications like cell or microbial culture, biochemical reactions, enzyme and tissue research, etc. Incubator shakers from Lab1st will bring you a premium cultivation experience at an affordable price.

Features >>>

- Streamlined and compact design
- Mirror 304SUS inner chamber, easy to clean
- Single-axis balanced drive, safe and stable operation
- A great variety of clamps available, such as flask clamp, spring rocker, test tube rack, adhesive plate, enzyme plate clamp, etc.
- Advanced inverter refrigeration technology, saving 30% energy

Parameter >>>

Model	ISS180/180R	ISS260/260R	ISS165/165R
Specification			
Parameter Control	LCD Color Touch Screen [P.I.D Microprocessor]		
Operation Menu, MMI [Language]	CH, EN		
Maximum Expansion	Stackable up to 3 units	Stackable up to 3 units	Stackable up to 2 units
Air Circulation	Forced air circulation		
Max. Vessel Volume	2L	2L	5L
External Dimensions [mm]	1150×730×810mm [single unit]	1410×730×785mm [single unit]	650×905×845mm [single unit]
[W×H×D] ["]	45.27×28.74×31.89" [single unit]	55.51×28.74×30.91" [single unit]	25.59×35.63×33.27" [single unit]
Weight [Approx.]	308Kg	354Kg	205Kg
Incubation Chamber			
Material	Mirror SUS304		
Inner Dimension [mm]	850×565×395mm [180L]	1020×430×595mm [260L]	560×565×520mm [165L]
[W×H×D] ["]	33.46×22.24×15.55"	40.16×16.93×23.43"	22.05×22.24×20.47"
Tray Size [mm]	780×500mm	920×540mm	480×440mm
[W×D] ["]	30.71×19.69"	36.22×21.26"	18.90×17.32"
Tray QTY [pcs]	1	1	1│2[Option]
Tray Max. Capacity [Single]	250ml×40, 500ml×28, 1000ml×15, 2000ml×12	50ml×135, 100ml×91, 250ml×60, 500ml×38, 1000ml×27, 2000ml×15	50ml×56, 100ml×36, 250ml×20, 500ml×16, 1000ml×9, 5000ml×4
Tray Max. Capacity [Double]	-	-	50ml×60, 100ml×60, 250ml×40, 500ml×32
Lighting │ UV Lamp	8W │ 8W		
Temperature			
Temp. Range [Ambient Temp. 5-35°C]	Incubated: 5°C above ambient to 60°C Refrigerated: 18°C below ambient[min. 4°C] to 60°C		
Temp. Accuracy	0.1°C		
Temp. Uniformity	≤±0.5°C [37°C]		
Heating / Cooling Power	1100W / 195W	1300W / 195W	800W / 150W
Temp. Sensor	PT100		
Shaking Control			
Shaking Motion	Orbital │ Linear [Option]	Orbital │ Linear [Option]	Switch freely between orbital and linear type
Shaking Throw [Orbital]	25mm │ 50mm [Option]	25mm │ 50mm [Option]	25mm
Shaking Throw [Linear/Reciprocating]	25mm	25mm	25mm [No reciprocating for double tray]
Shaking Frequency	20-300rpm[±1rpm] Depending on load and stacking		
Stirring Power	150W		
Ergonomics			
Door Opening	Flip up/down door	Flip up/down door	Opening to front
Platform Type	Slide out	Slide out	Fixed
Electrical,Packing and shipping			
Total Power	1580W │ 1819W [with cooling]	1580W │ 1819W [with cooling]	940W │ 1296W [with cooling]
Power Source	AC200-240V, 1Phase, 50-60HZ AC108-120V, 1Phase, 60HZ [Option]		
Packing Dimensions [mm]	1270×920×980mm [One unit]	1540×920×980mm [single unit]	980×1090×780mm [One unit]
[W×H×D] ["]	50.00×36.22×38.58" [One unit]	60.63×36.22×38.58" [single unit]	38.58×42.91×30.71" [One unit]
Packing Weight	371Kg	429Kg	249Kg

Parameter >>>

Model	ISS180/180R	ISS260/260R	ISS165/165R
Standard Function and Options			
Power Outage: Restore After Power On	●	●	●
Timer [0-999min]	●	●	●
Temperature and Speed Calibration	●	●	●
Programming Steps │ Storable Programs	● [30 │ 5]	● [30 │ 5]	● 8 │ 1
Programming Steps │ Storable Programs [30 │ 5]	●	●	○ [upgrade to touch screen]
LCD Color Touch Screen	●	●	○
Third Level Authority, Operation Record	●	●	○ [upgrade to touch screen]
Historical Records, Real-time Curves [USB Export]	●	●	○ [upgrade to touch screen]
Remote Upper Computer	○	○	○ [upgrade to touch screen]
Darkening Window Shade [Left-right Moving]	○	○	○
Embedded Microprinter	○	○	○
Humidity Control	○	○	○
White Light [Tunable Intensity to Simulate Day/Night-cyles]	○	○	○
Red and Blue Light	○	○	○
RS485Communication Interface [Modbus RTU Communication Protocols]	○	○	○
3Q Document	○	○	○
Safety Protection			
Visually Alarm │ Auditory Alarm	●	●	●
Overspeed Alarm	●	●	●
Sensor Fault Detection	●	●	●
Over Temperature Protector	●	●	●
Electric Leakage Protection	●	●	●
Compressor High Pressure Protection	●	●	●

● = Standard   ○ = Optional   —— = N/A

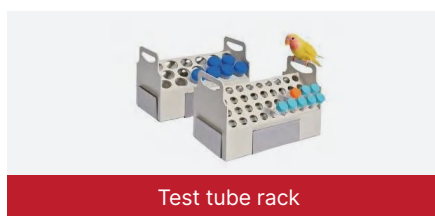# Accessories >>>

Stainless steel flask clamp

Bottle gripping plate
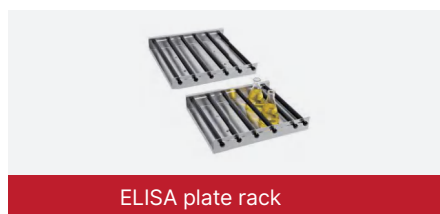

Universal spring rocker

ELISA plate rack

Test tube rack

Sticky board

ELISA plate rack

Test tube rack

Sticky board