



# INCUBATOR SHAKER

Specialized in the R&D and production of lab incubator shaker for 13 years



*Build an incubating shaker with the spirit of building an airplane*

# ABOUT ZHICHU

## WHO WE ARE

Shanghai Zhichu Instrument Co., Ltd is all about shakers (incubator shakers) which include invention, production, sales and services. We have a number of patent certificates and established a comprehensive product agency distribution and after-sales service network in China. Products are mainly used in fermentation, cultivating viral bacteria and microorganism, hybridization, biochemical reactions and cellular organization. Our aim is to continually develop leading technologies and products.

## Core Business

Zhichu is all about the making of incubator shakers which involves CO<sub>2</sub> incubator shaker series, stacked incubator shaker series, universal temperature controlled incubator shaker series, light oscillation incubator series and oscillator series.

## CO<sub>2</sub> incubator shaker series

This series is controlled by CO<sub>2</sub> with combined heating or cooling system. The structure has one, two or three layers.

## Stacked incubator shaker series

This series is controlled by combined heating or cooling system. The structure has two or three layers. Every layer can be operated independently.

## Universal temperature controlled incubator shaker series

This series is controlled by combined heating or cooling system. These products have different structure with standing, desktop and lying.

## Oscillator series

This series are open devices without temperature control, they are just even oscillation in normal temperature.

## Application areas

Products service the research in life sciences, immunology, genetics, agricultural sciences, biomedical science, food industry, biochemical reactions, enzyme Engineering and cellular organization. They help meet different cultivate requirements about temperature, humidity, light, carbon dioxide concentration, oscillation frequency and amplitude.

## The spirit of ZHICHU

Build the shaker with the spirit of building an airplane.

## The three perseverance of Zhichu:

Recruit talents at all costs;

Improve product quality at all costs;

Do good after-sales service at all costs.

## Clients

The company takes "technical innovation and service first" as its purpose, takes "quality management" as its cornerstone, adopts modern management and advanced design concepts, and continuously cultivates and absorbs excellent scientific research and technical personnel to provide effective guarantee for product development and quality. And the company strives to provide high-quality products for users.

With the support of domestic and foreign users and partners, Shanghai Zhichu has developed rapidly and has established a good reputation in the industry. Universities and research institute users, pharmaceutical and a large number of well-known enterprises and institutions.

In the future, Shanghai Zhichu will continue to stick to the road of science and technology, continue to carry forward the spirit of "seeking truth and being pragmatic, forging ahead, and constantly innovating", and is committed to building an internationally competitive brand.

## Company philosophy

The company adheres to the management philosophy of "integration of knowledge and action / practical results", and effectively combines theory and practice. All work starts from reality, pays attention to efficiency, and strives to create a high-end and professional shaker.

## Development

In 2010, Zhichu Instrument was officially established in Shanghai, and clarified the high-end market positioning

In 2012, Zhichu Instrument passed CE and the ISO9001 quality management system certification

In 2013, All Zhichu Instrument were professionally tested by Shanghai Aerospace 808, and all indicators reached the domestic leading level

In 2014, the sheet metal department was formally established to complete integrated production; and obtained a number of patent certificates

In 2015, Zhichu Instrument was recognized as a national high-tech enterprise for the first time

In 2016, Purchase an independent factory

In 2017, the first Chinese brand recommended by the official website of Jiangnan University

In 2018, Shanghai Bolv Instrument Co., Ltd. was established as a joint venture, specializing in the R&D and production of incubators.

In 2019, Shanghai Biotechnology Co., Ltd. was established, specializing in the R&D and production of high-end biological instrument.

In 2020, Zhichu Laboratory Equipment Co., Ltd. was established as a joint venture, specializing in the R&D and production of small animal imaging, biological safety cabinets and clean benches; at the same time, Shanghai Science and Technology Little Giant successfully established the project.

In 2021, Successfully established Zhichu product demonstration laboratories in two famous universities in China

In 2022, Obtained the title of key enterprise





**Small capacity  
stacked incubator shaker ZQZY-78C**



**Temperature-control  
stacked incubator shaker ZQZY-88C**



**Large capacity  
stacked incubator shaker ZQZY-98C**

## Specifications

- ◆ Audible and visible alarms alert the user and automatic power-off under abnormal conditions. Automatic restart after power interrupt with non-volatile Memory Keeps running smoothly.
- ◆ High quality and low noise imported CFC free compressors ensure refrigeration effect.
- ◆ LCD Touch Screen that making parameters setting and viewing easily. Such as: a. The setting temperature, humidity, speed, time and the real temperature, speed, remaining time are shown simultaneously. b. Keyboard blocking prohibits miss operation. c. Setting rotation direction is positive or reverse. d. Setting circulation fan opens normally or automatically. e. Such data curves as temperature and speed can be displayed.
- ◆ The data easily transfer through the USB interface.
- ◆ Timing frost-removing function ensures to work for long time in low temperature without freezing.
- ◆ The EMC (Electromagnetic Interference) makes machine more accurate and stable.
- ◆ One-time molded plastic clamp, which is convenient for one-handed access to sample bottle.

## Technical parameters

Shaking Speed Range	10~350rpm (Top unit 10~300rpm)
Shaking Control Accuracy	± 1rpm
Orbit (diameter)	Φ26mm (standard)
Temp. Range	4 ~ 60℃ (at R.T. 23℃ ~ 25℃)
Temp. Control Accuracy	± 0.1℃
Temp. Control Uniformity	± 0.6℃ (at 37℃)
Inner chamber	R(arc angle )

Display	LCD touch screen
Air circulation	Forced air circulation
Parameter Control	P.I.D Microprocessor
Timer Range	0~999.9 hrs.
Power Source	AC220 ± 10%、50 ~ 60Hz
Noise Level	<55dB

	ZQZY-78C	ZQZY-88C	ZQZY-98C
Model	One unit ZQZY-78A, Two-unit ZQZY-78B Three-unit ZQZY-78C	One unit ZQZY-88A, Two-unit ZQZY-88B Three-unit ZQZY-88C	One unit ZQZY-98A, Two-unit ZQZY-98B Three-unit ZQZY-98C
Max. Capacity (Stainless steel clamps)	Single layer 250ml × 25 OR 500ml × 16 OR 1000ml × 9 OR 2000ml × 5 OR 3000ml × 5	Single layer 250ml × 30 OR 500ml × 20 OR 1000ml × 12 OR 2000ml × 8 OR 3000ml × 5	Single layer 250ml × 30 OR 500ml × 20 OR 1000ml × 12 OR 2000ml × 8 OR 5000ml × 4
Max. Capacity (plastic clamps)	Single layer 250ml × 25 OR 500ml × 16 OR 1000ml × 9 OR 2000ml × 5 OR 3000ml × 4	Single layer 250ml × 30 OR 500ml × 20 OR 1000ml × 12 OR 2000ml × 8 OR 3000ml × 5	
Universal tray size(L × W)	Single layer 475mm × 465mm	Single layer 575mm × 465mm	
Outside Dimen Dimensions(L × W × H)	One unit 820mm × 700mm × 600mm Two-unit 820mm × 700mm × 1170mm Three-unit 820mm × 700mm × 1735mm	One unit 920mm × 700mm × 600mm Two-unit 920mm × 700mm × 1170mm Three-unit 920mm × 700mm × 1735mm	One unit 920mm × 700mm × 685mm, Two-unit 920mm × 700mm × 1315mm Three-unit 920mm × 700mm × 1950mm
Net weight (about)	One unit 115kg, Two-unit 250kg, Three-unit 365kg	One unit 121kg, Two-unit 268kg, Three-unit 385kg	One unit 161kg, Two-unit 289kg, Three-unit 438Kg
Effective inner height	362mm		432mm





**Stacked incubator shaker: ZQZY-C8**

- ◆ LCD button screen
- ◆ Arc angle (R angle) and 304 stainless steel inner chamber, not easy to breed bacteria, anti-corrosion.



**Stacked incubator shaker: ZQZY-CF8**

- ◆ Arc angle (R angle) and 304 stainless steel inner chamber, not easy to breed bacteria, anti-corrosion.
- ◆ LCD touch screen, can display simultaneously the setting temperature, speed, time and actual temperature, speed, remaining time. Special refrigeration process, the amount of refrigerant can be automatic adjusted, and the temperature control is more precise.



**Stacked incubator shaker: ZQZY-CS8**

- ◆ Arc angle (R angle) and antibacterial stainless steel design are not easy to breed bacteria, and the antibacterial rate can reach 99%; stamping door design, stainless steel without screws, the whole is more beautiful and antibacterial.
- ◆ LCD touch screen, can display simultaneously the setting temperature, speed, time and actual temperature, speed, remaining time. Special refrigeration process, the amount of refrigerant can be automatic adjusted, and the temperature control is more precise.

## Specifications

- ◆ Stack up to three units high, Space-saving and high-capacity.
- ◆ Audible and visible alarms alert the user and automatic power-off under abnormal conditions. Automatic restart after power interrupt with non-volatile Memory Keeps running smoothly.
- ◆ The operation interface is password-protected, making the system and data more secure.
- ◆ High quality and low noise imported CFC free compressors ensure refrigeration effect.
- ◆ Servo-motor can control precisely speed and is more stable.
- ◆ One-time molded plastic clamp, which is convenient for one-handed access to sample bottle.

## Technical parameters

Shaking Speed Range	10-300rpm
Shaking Control Accuracy	± 1rpm
Orbit (diameter)	Φ26mm ( Standard ) 、 Φ50mm ( optional )
Temp. Range	4 ~ 60℃ ( at R.T. 23℃ ~ 25℃ )
Temp. Control Accuracy	± 0.1℃
Air circulation	Forced air circulation

Parameter Control	P.I.D Microprocessor
Timer Range	0-999.9 hrs.
Universal tray size	Single layer 928mm × 530mm
Power Source	AC220 ± 10%、50 ~ 60Hz
Noise Level	<55dB

	ZQZY-C8	ZQZY-CF8	ZQZY-CS8
Model	One unit ZQZY-A8, Two-unit ZQZY-B8 Three-unit ZQZY-C8	One unit ZQZY-AF8, Two-unit ZQZY-BF8 Three-unit ZQZY-CF8	One unit ZQZY-AS8, Two-unit ZQZY-BS8 Three-unit ZQZY-CS8
Max. Capacity (Stainless steel clamps)	Single layer 250ml × 66 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 15		
Max. Capacity (plastic clamps)	Single layer 250ml × 60 OR 500ml × 40 OR 1000ml × 23 OR 2000ml × 15		
Outside Dimensions (L × W × H)	One unit 1360mm × 830mm × 630mm Two-unit 1360mm × 830mm × 1185mm Three-unit 1360mm × 830mm × 1740mm	One unit 1360mm × 845mm × 630mm Two-unit 1360mm × 845mm × 1185mm Three-unit 1360mm × 845mm × 1740mm	
Display method	LCD button screen	LCD touch screen	
Net weight (about)	One unit 205kg, Two-unit 398kg, Three-unit 584kg	One unit 206kg, Two-unit 399kg, Three-unit 585kg	One unit 210kg, Two-unit 400kg, Three-unit 586kg
Effective inner height	364mm		345mm
Temperature uniformity	±1℃ ( at 37℃ )	±0.8℃ ( at 37℃ )	±0.6℃ ( at 37℃ )



**High speed**  
**incubator shaker:ZSZY-88CH**

- ◆ Equipped with two motors in one unit incubator, which can control the speed and forward and reverse simultaneously or independently, to meet different use requirements. Equipped with columnar high-speed special clamp holders for 96 well plate culture.
- ◆ Arc angle (R angle) and 304 stainless steel inner chamber, not easy to breed bacteria, anti-corrosion.



**Stacked**  
**incubator shaker: ZDZY-BF8**

- ◆ Arc angle (R angle) and 304 stainless steel inner chamber, not easy to breed bacteria, anti-corrosion.



**Stacked**  
**incubator shaker: ZDZY-BS8**

- ◆ Arc angle (R angle) and antibacterial stainless steel design are not easy to breed bacteria, and the antibacterial rate can reach 99%; stamping door design, stainless steel without screws, the whole is more beautiful and antibacterial.

## Specifications

- ◆ Audible and visible alarms alert the user and automatic power-off under abnormal conditions. Automatic restart after power interrupt with non-volatile Memory Keeps running smoothly.
- ◆ Timing frost-removing function ensures to work for long time in low temperature without freezing. The timing range is 1~89min and the defrost interval is adjustable from 30 to 600min.
- ◆ High quality and low noise imported CFC free compressors ensure refrigeration effect.
- ◆ LCD Touch Screen that making parameters setting and viewing easily. Such as:  
a. The setting temperature, speed, time and the real temperature, remaining time are shown simultaneously. b. Keyboard blocking prohibits miss operation. c. Setting rotation direction is positive or reverse. d. Setting circulation fan opens normally or automatically. e. Data memory function can check the history record within 3 months.
- ◆ The data easily transfer through the USB interface.
- ◆ Servo-motor can control precisely speed and is more stable.

## Technical parameters

Shaking Control Accuracy	± 1rpm
Temp. Range	4 ~ 60℃ ( at R.T. 23℃ ~ 25℃ )
Temp. Control Accuracy	± 0.1℃
Display method	LCD touch screen
Air circulation	Forced air circulation

Parameter Control	P.I.D Microprocessor
Timer Range	0~999.9 hrs.
Power Source	AC220 ± 10%、50 ~ 60Hz
Noise Level	<55dB

	ZSZY-88CH	ZDZY-BF8	ZDZY-BS8
Model	One unit ZSZY-88AH, Two-unit ZSZY-88BH, Three-unit ZSZY-88CH	One unit ZDZY-AF8, Two-unit ZDZY-BF8,	One unit ZDZY-AS8, Two-unit ZDZY-BS8
Shaking Speed Range	10~1000rpm	10~300rpm	
Orbit (diameter)	Φ3mm	Φ26mm ( Standard ) , Φ50mm ( optional )	
Max. Capacity (Stainless steel clamps)	columnar high-speed special clamp holders	Single layer 250ml × 66 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 15 OR 5L × 8	
Max. Capacity (plastic clamps)		Single layer 250ml × 60 OR 500ml × 40 OR 1000ml × 23 OR 2000ml × 15	
Universal tray size (L × W)	Single layer 435 × 298mm × 2	Single layer 928mm × 530mm	
Included	16 deep well plates can be placed	Universal clamp holders can choose	
Outside Dimensions (L × W × H)	One unit 920mm × 700mm × 600mm Two-unit 920mm × 700mm × 1170mm Three-unit 920mm × 700mm × 1735mm	One unit 1360mm × 845mm × 730mm Two-unit 1360mm × 845mm × 1385mm	
Net weight (about)	One unit 104kg, Two-unit 245kg, Three-unit 352kg	One unit 210kg, Two-unit 412kg	One unit 218kg, Two-unit 428kg
Effective inner height	\	465mm	445mm
Temperature uniformity	± 0.6℃ ( at 37℃ )	± 0.8℃ ( at 37℃ )	± 0.6℃ ( at 37℃ )



### Large capacity stacked incubator shaker: ZQZY-CS9

- Stamping door design, stainless steel without screws, the whole is more beautiful and antibacterial.



### Floored CO2 incubator shaker: ZCLY-180

- New door locking structure and good air tightness of the incubator.
- (VAISALA) Infrared CO2 sensor measures the CO2 concentration automatically with high sensitivity.



### Small capacity stacked CO2 incubator shaker: ZCZY-CN

- Stamping door design, stainless steel without screws, the whole is more beautiful and antibacterial.
- (VAISALA) Infrared CO2 sensor measures the CO2 concentration automatically with high sensitivity.

## Specifications

- Arc angle (R angle) and antibacterial stainless steel design are not easy to breed bacteria, and the antibacterial rate can reach 99%;
- Audible and visible alarms alert the user and automatic power-off under abnormal conditions. Automatic restart after power interrupt with non-volatile Memory Keeps running smoothly.
- LCD Touch Screen that making parameters setting and viewing easily. Such as:
  - The setting temperature, speed, time and the real temperature, remaining time are shown simultaneously.
  - Keyboard blocking prohibits miss operation.
  - Setting rotation direction is positive or reverse.
  - Setting circulation fan opens normally or automatically.
  - Data memory function can check the history record within 3 months.
- The data easily transfer through the USB interface.
- High quality and low noise imported CFC free compressors ensure refrigeration effect.
- Timing frost-removing function ensures to work for long time in low temperature without freezing. The timing range is 1~89min and the defrost interval is adjustable from 30 to 600min.
- The plastic molding clamps make it easily to put and take flasks with one hand.

## Technical parameters

Shaking Control Accuracy	±1rpm
Temp. Range	4~60℃ ( at R.T.23℃~25℃ )
Temp. Control Accuracy	±0.1℃
Display method	LCD touch screen

Air circulation	Forced air circulation
Parameter Control	P.I.D Microprocessor
Timer Range	0~999.9 hrs.
Noise Level	<55dB

	ZQZY-CS9	ZCLY-180	ZCZY-CN
Model	One unit ZQZY-AS9, Two-unit ZQZY-BS9 Three-unit ZQZY-CS9	ZCLY-180	One unit ZCZY-AN, Two-unit ZCZY-BN Three-unit ZCZY-CN
CO2 control accuracy	\	0.1%	
Shaking Speed Range	10~300rpm		10~250rpm
Orbit (diameter)	Φ26mm ( Standard )、Φ50mm ( optional )	Φ26mm	Φ50mm ( Standard )、Φ26mm ( optional )
Max. Capacity (Stainless steel clamps)	Single layer 250ml×72 OR 500ml×45 OR 1000ml×28 OR 2000ml×18	Single layer 250ml×25 OR 500ml×16 OR 1000ml×9	Single layer 250ml×36 OR 500ml×25 OR 1000ml×16 OR 2000ml×9
Max. Capacity (plastic clamps)	Single layer 250ml×66 OR 500ml×45 OR 1000ml×28 OR 2000ml×18		Single layer 250ml×30 OR 500ml×24 OR 1000ml×14 OR 2000ml×9
Universal tray size(L×W)	Single layer 1000mm×530mm	Single layer 485mm×485mm	Single layer 555mm×530mm
Outside Dimensions (L×W×H)	One unit 1430mm×845mm×630mm, Two-unit 1430mm×845mm×1185mm, Three-unit 1430mm×845mm×1740mm	760mm×680mm×1280mm	One unit 990mm×845mm×630mm, Two-unit 990mm×845mm×1185mm, Three-unit 990mm×845mm×1740mm
Net weight (about)	One unit 272kg, Two-unit 506kg, Three-unit 728kg	183kg	One unit 200kg, Two-unit 368kg, Three-unit 515kg
Effective inner height	345mm	558mm	345mm
Temperature uniformity	±0.8℃ ( at 37℃ )		±0.5℃ ( at 37℃ )



**Stacked**  
**CO<sub>2</sub> incubator shaker:ZCZY-CS8**

- ◆ Including two humidification plates for natural humidification. The bottom of the inner chamber of the incubator can be washed thoroughly without dead ends.



**Large capacity**  
**CO<sub>2</sub> incubator shaker:ZCZY-CS9**

- ◆ Including two humidification plates for natural humidification. The bottom of the inner chamber of the incubator can be washed thoroughly without dead ends.



**Super large capacity**  
**CO<sub>2</sub> incubator shaker:ZCZY-CSE**

- ◆ Including auto humidity control function. Humidity control range: ambient temperature to 95%, humidity accuracy: 5%. The bottom of the inner chamber of the incubator can be washed thoroughly without dead ends.

## Specifications

- ◆ Audible and visible alarms alert the user and automatic power-off under abnormal conditions. Automatic restart after power interrupt with non-volatile Memory Keeps running smoothly.
- ◆ Antibacterial stainless inner chamber with arc angle is easy to clean and protects bacteria breeding. Antibacterial rate can reach 99%.
- ◆ (VAISALA) Infrared CO<sub>2</sub> sensor measures the CO<sub>2</sub> concentration automatically with high sensitivity.
- ◆ Insulating and tempered door glass as well as the stainless steel frames with heating function avoid condensation effectively, also provides good view of incubating state without opening.
- ◆ LCD Touch Screen that making parameters setting and viewing easily. Such as: a. The setting temperature, humidity, speed, time and the real temperature, speed, remaining time are shown simultaneously. b. Keyboard blocking prohibits miss operation. c. Setting rotation direction is positive or reverse. d. Setting circulation fan opens normally or automatically. e. Such data curves as temperature and speed can be displayed. f. The data easily transfer through the USB interface.
- ◆ With data recording function, it can record data for 5 years.
- ◆ Embedded fabric curtain can stretch repeatedly and be not easy to damage, completely avoids light influence on culture. (ZCZY-CS8 is optional)
- ◆ CO<sub>2</sub> has good air tightness, and it takes 30 minutes for the concentration to drop from 5% to 4.5%.
- ◆ One-time molded plastic clamp, which is convenient for one-handed access to sample bottle.

## Technical parameters

Shaking Speed Range	10-250rpm, 10-300(Φ26mm)
Shaking Control Accuracy	± 1rpm
Orbit (diameter)	Φ50mm ( Standard ) 、 Φ26mm ( Optional )
Temp. Range	4℃ ~ 60℃ (at 23℃ ~ 25℃)
Temp. Control Accuracy	± 0.1℃
Temp. Control Uniformity	± 0.5℃ ( at 37℃ )
Inner chamber	R(arc angle )
CO <sub>2</sub> Control Range.	0-20%

CO <sub>2</sub> Control Accuracy	0.1%
Display	LCD (Touch Screen)
Air circulation	Forced air circulation
Parameter Control	P.I.D Microprocessor
Timer Range	0-999.9 hrs.
Power Source	AC220 ± 10% 50 ~ 60Hz
Noise Level	<55dB

	ZCZY-CS8	ZCZY-CS9	ZCZY-CS
Model	One unit ZCZY-AS8, Two-unit ZCZY-BS8, Three-unit ZCZY-CS8	One unit ZCZY-AS9, Two-unit ZCZY-BS9, Three-unit ZCZY-CS9	One unit ZCZY-AS, Two-unit ZCZY-BS, Three-unit ZCZY-CS,
Max. Capacity (Stainless steel clamps)	Single layer 250ml × 66 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 15	Single layer 250ml × 72 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 18	Single layer 250ml × 77 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 18 OR 2800ml × 12
Max. Capacity (plastic clamps)	Single layer 250ml × 60 OR 500ml × 40 OR 1000ml × 23 OR 2000ml × 15	Single layer 250ml × 66 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 18	Single layer 250ml × 66 OR 500ml × 45 OR 1000ml × 28 OR 2000ml × 18
Universal tray size(L × W)	Single layer 928mm × 530mm	Single layer 1000mm × 530mm	Single layer 1000mm × 630mm
Outside Dimen Dimensions(L × W × H)	One unit 1360mm × 845mm × 630mm, Two-unit 1360mm × 845mm × 1185mm, Three-unit 1360mm × 845mm × 1740mm	One unit 1430mm × 845mm × 630mm, Two-unit 1430mm × 845mm × 1185mm, Three-unit 1430mm × 845mm × 1740mm	One unit 1430mm × 895mm × 630mm, Two-unit 1430mm × 895mm × 1185mm, Three-unit 1430mm × 895mm × 1740mm
Net weight (about)	One unit 214kg, Two-unit 409kg, Three-unit 596kg	One unit 272kg, Two-unit 506kg, Three-unit 728kg	One unit 282kg, Two-unit 526kg, Three-unit 758kg



\* The following are the Zhichu company's products, please refer to the company's product catalog for detailed technical parameters

\*All data are subject to modification without prior notice, subject to the latest data of the Zhichu company, the Zhichu company reserves the right of final interpretation,

## Universal Temperature -control Incubator Shaker Series



Bench-top thermo incubator shaker



Bench-top incubator shaker (with cooling)



Bench-top incubator shaker (with cooling)



Floored incubator shaker (with cooling)



Floored large capacity incubator shaker (with cooling)



Floored super-large capacity incubator shaker (with cooling)

## Universal Temperature -control Incubator Shaker Series (horizontal)



Horizontal incubator shaker (with cooling)



Horizontal large capacity incubator shaker (with cooling)



Horizontal super-large capacity incubator shaker (with cooling)



Floored illumination incubator shaker



Horizontal illumination incubator shaker



Stacked illumination incubator shaker

## Water Bath Incubator Shaker Series



Water bath incubator shaker (non-refrigerated)



Reciprocating water bath incubator shaker (non-refrigerated)

## Orbital Shakers Series



Bench-top orbital shaker



Super-large orbital shaker



Stacked orbital shaker

**Distributor**

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