

# STACKABLE SHAKING INCUBATOR SERIES

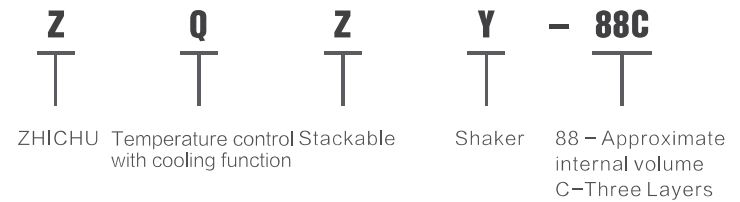


- Triple eccentric drive
- Over-temperature alarm
- Power failure recovery
- UV sterilization
- User-friendly design
- Silent Fan

## Product Introduction

- This series of shaking incubator is a shaking incubator with temperature regulation of heating and cooling heating system.
- It is constructed with one, two or three layers for stackable space-saving design.
- Each layer can be operated independently, offering good performance and high cost efficiency.

## Product Model Number Definition



## Scope of Application

This product is widely used in the research on life sciences, immunology, genetics, agricultural science, biomedicine and food industries and on biochemical reactions and cellular organization. It provides effective support for culture conditions with different requirements of temperature, humidity, light, CO<sub>2</sub> concentration, shaking speed and amplitude! It plays a widespread and important role in the research and application fields of medicine, biology, molecular biology, pharmaceuticals, food and environmental protection.

## ZQZY-3CS8H ▼

### High Speed Triple-platform Shaking Incubator



Lightweight thermal dissipation frame



Three separate high-speed platforms for each layer



LCD Touch Screen



Over-temperature alarm



Imported Compressor



Power failure recovery



UV sterilization



User-friendly design

### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space.
- ◆ **Layer Design:** The bottom two layers feature downward-opening doors, while the top layer has an upward-opening door.
- ◆ **Platform Independent Control:** Each high-speed platform can be controlled separately, with the capability to operate at different speeds simultaneously.
- ◆ **Screwless Stamped Door:** Provides a sleek, aesthetically pleasing design.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action

### Specifications

- ◆ **Advanced Refrigeration&Defrost :** Adjustable cooling for precise action temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **Adjustable Heating Power on Door Glass and Frame:** Optimizes temperature and energy efficiency.
- ◆ **Automatic Humidity Control(Optional):** external humidity control module replenishes R.O or distilled water and vaporizes it to hightemperature steam into air duct, reaching humidity up to 90%.
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, humidity, speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.
- ◆ **Platform Independent Control:** Records up to 5 years of data, including temperature, CO<sub>2</sub> concentration, and humidity curves, with a USB interface for easy export
- ◆ **Fabric Blackout Curtains(Optional):** Blocks external light to prevent interference during culture.
- ◆ **IQ/OQ/PQ Validation(Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks
- ◆ **Modbus RS232/RS485/RJ45(Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring(Optional):** Enables remote tracking and management of equipment

### Technical Parameters

Commodity Name		High Speed Triple-platform Shaking Incubator	
Model	Single-layer ZQZY-3AS8H Dual-layer ZQZY-3BS8H Triple-layer ZQZY-3CS8H	Control mode	P. I. D microcomputer intelligent control
No-load shaking speed	10-1000rpm (three-motor)	Timing range	0-999.9 hours
shaking speed accuracy	±1rpm	shaking platform dimensions (Length×Width)	Single-layer 535mm×298mm×3
Orbit diameter	Φ3mm	Standard configuration	Specialized column clamp (96 deep well microplates×30 up to 60)
Temperature control range	4~60°C (RT at 23°C~25°C)	Power Supply	AC220±10%、50~60HZ
Temperature control accuracy	±0.1°C	Overall Dimensions (Length×Width×Height)	Single-layer 1360mm×845mm×630mm Dual-layer 1360mm×845mm×1185mm Triple-layer 1360mm×845mm×1740mm
Temperature uniformity	±0.6°C ( at 37°C)		
Inside the incubator	R angle (arc angle)	Net Weight	Single-layer 210kg Dual-layer 400kg Triple-layer 586kg
Display mode	LCD (touch screen)	Noise level	Below 55dB
Convection mode	Forced convection	Distance from shaking platform to top	345mm

## ZQZY-88CH/ZSZY-88CH ▼

### High Speed Shaking Incubator, Single/Dual Platforms



Lightweight thermal dissipation frame



Solid high speed platform ZCZY-A/B/CH



Split dual high speed platforms ZCZY-A/B/CNH



Over-temperature alarm



Imported Compressor



Power failure recovery



UV sterilization



User-friendly design

#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space.
- ◆ **Independent Control:** Each layer can operate at different temperatures and speeds, or independently.
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirror-finish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action.

#### Specifications

- ◆ **Seamless Chamber:** The shaker's inner chamber uses seamless welding, allowing for easy, thorough cleaning without dead angles or special tools.
- ◆ **Intuitive Interface:** The 4.3" LCD touch screen simultaneously displays temperature, speed, time, and remaining values on a single screen, with an encrypted lock to prevent errors. The platform's rotation can be set to clockwise or counterclockwise.
- ◆ **Comprehensive Data Logging:** The system records data every minute, with the ability to store up to a year's worth of data, and includes a USB port for easy data export.
- ◆ **Precise Control:** The high-quality servo motor ensures accurate high speed control and high stability. Model ZSZY-88C features dual motors, enabling independent or synchronized speed and rotation control.
- ◆ **Timed Defrosting:** The unique timed defrost function allows setting defrost times from 1 to 250 seconds and intervals from 30 to 600 minutes, preventing evaporator freeze during long-term low-temperature operation.
- ◆ **Reserved tubing inlet:** Specialized side inlet is designed to meet the oxygen needs of the samples.
- ◆ **IQ/OQ/PQ Validation (Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks.
- ◆ **Modbus RS232/RS485/RJ45 (Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.

#### Technical Parameters

Commodity Name	High Speed Shaking Incubator	High Speed Shaking Incubator, Dual Platforms
Model	Single-layer ZQZY-88AH, Dual-layer ZQZY-88BH, Triple-layer ZQZY-88CH	Single-layer ZSZY-88AH, Dual-layer ZSZY-88BH, Triple-layer ZSZY-88CH
No-load shaking speed	10-800rpm (10-1200rpm)	10-1000rpm (dual-motor)
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ3mm (φ1.5mm)	Φ3mm
Temperature control range	4~60°C (RT at 23°C~25°C)	4~60°C (RT at 23°C~25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.6°C (at 37°C)	±0.6°C (at 37°C)
Inside the incubator	R angle (arc angle)	R angle (arc angle)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 575mm×435mm	Single-layer 435mm×298mm*2
Standard configuration	Specialized column clamp (96-well plate *16, up to 2 layers)	Specialized column clamp (96-well plate *16, up to 2 layers)
Power Supply	AC220±10%、50~60HZ	AC220±10%、50~60HZ
Overall Dimensions (Length×Width×Height)	Single-layer 920mm×700mm×635mm Dual-layer 920mm×700mm×1200mm Triple-layer 920mm×700mm×1765mm	Single-layer 920mm×700mm×635mm Dual-layer 920mm×700mm×1200mm Triple-layer 920mm×700mm×1765mm
Net Weight	Single-layer 104kg Dual-layer 245kg Triple-layer 352kg	Single-layer 106kg Dual-layer 249kg Triple-layer 358kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	350mm	350mm

## ZQZY-78C/ZQZY-88C ▼

### Stackable Refrigerated Shaking Incubator, Medium Capacity



#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation.
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirrorfinish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV timed sterilization for effective germicidal action

#### Specifications

- ◆ **Seamless Chamber:** The shaker's inner chamber uses seamless welding, allowing for easy, thorough cleaning without dead angles or special tools.
- ◆ **Intuitive Interface:** The 4.3" LCD touch screen simultaneously displays temperature, speed, time, and remaining values on a single screen, with an encrypted lock to prevent errors. The platform's rotation can be set to clockwise or counterclockwise.
- ◆ **Comprehensive Data Logging:** The system records data every minute, with the ability to store up to a year's worth of data, and includes a USB port for easy data export.
- ◆ **Timed Defrosting:** The unique timed defrost function allows setting defrost times from 1 to 250 seconds and intervals from 30 to 600 minutes, preventing evaporator freeze during long-term low-temperature operation.
- ◆ **Reserved tubing inlet:** Specialized side inlet is designed to meet the oxygen needs of the samples.
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

#### Technical Parameters

Commodity Name	Refrigerated Shaking Incubator, Medium Capacity	Refrigerated Shaking Incubator, Medium Capacity
Model	Single-layer ZQZY-78A, Dual-layer ZQZY-78B Triple-layer ZQZY-78C	Single-layer ZQZY-88A, Dual-layer ZQZY-88B Triple-layer ZQZY-88C
No-load shaking speed	10-350rpm(top layer 10-300rpm)	10-350rpm(top layer 10-300rpm)
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ26mm	Φ26mm
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.6°C ( at 37°C)	±0.6°C ( at 37°C)
Inside the incubator	R angle (arc angle)	R angle (arc angle)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	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
Maximum capacity (plastic clamp)	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
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 475mm×465mm	Single-layer 575mm×465mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%, 50 ~ 60Hz	AC220±10%, 50 ~ 60Hz
Overall Dimensions (Length×Width×Height)	Single-layer 820mm×700mm×635mm Dual-layer 820mm×700mm×1200mm Triple-layer 820mm×700mm×1765mm	Single-layer 920mm×700mm×635mm Dual-layer 920mm×700mm×1200mm Triple-layer 920mm×700mm×1765mm
Net Weight	Single-layer 115kg, Dual-layer 250kg, Triple-layer 365kg	Single-layer 121kg, Dual-layer 268kg, Triple-layer 385kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	365mm	345mm

## ZQZY-98C/ZQZY-108C ▼

### Stackable Refrigerated Shaking Incubator, Medium Capacity



#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation.
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirrorfinish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless

steel frame allows easy viewing without opening.

- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV timed sterilization for effective germicidal action

#### Specifications

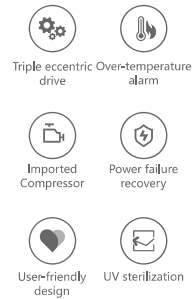
- ◆ **Seamless Chamber:** The shaker's inner chamber uses seamless welding, allowing for easy, thorough cleaning without dead angles or special tools.
- ◆ **Intuitive Interface:** The 4.3" LCD touch screen simultaneously displays temperature, speed, time, and remaining values on a single screen, with an encrypted lock to prevent errors. The platform's rotation can be set to clockwise or counterclockwise.
- ◆ **Comprehensive Data Logging:** The system records data every minute, with the ability to store up to a year's worth of data, and includes a USB port for easy data export.
- ◆ **Timed Defrosting:** The unique timed defrost function allows setting defrost times from 1 to 250 seconds and intervals from 30 to 600 minutes, preventing evaporator freeze during long-term low-temperature operation.
- ◆ **Reserved tubing inlet:** Specialized side inlet is designed to meet the oxygen needs of the samples.
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

#### Technical Parameters

Commodity Name	Refrigerated Shaking Incubator, Medium Capacity	Refrigerated Shaking Incubator, Medium Capacity
Model	Single-layer ZQZY-98A, Dual-layer ZQZY-98B Triple-layer ZQZY-98C	Single-layer ZQZY-108A, Dual-layer ZQZY-108B ZQZY-108C
No-load shaking speed	10-300rpm	10-300rpm
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ26mm (standard)	Φ26mm (standard)
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.6°C ( at 37°C)	±0.6°C ( at 37°C)
Inside the incubator	R angle (arc angle)	R angle (arc angle)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	Single-layer 250ml×30 or 500ml×20 or 1000ml×12 or 2000ml×8 or 5000ml×4	Single-layer 250ml×42 or 500ml×25 or 1000ml×16 or 2000ml×9 or 3000ml×8
Maximum capacity (plastic clamp)	Single-layer 250ml×30 or 500ml×20 or 1000ml×12 or 2000ml×8 or 3000ml×5	Single-layer 250ml×42 or 500ml×25 or 1000ml×16 or 2000ml×9 or 3000ml×8
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 575mm×465mm	Single-layer 625mm×555mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%、50 ~ 60HZ	AC220±10%、50 ~ 60HZ
Overall Dimensions (Length×Width×Height)	Single-layer 920mm×700mm×705mm Dual-layer 920mm×700mm×1340mm Triple-layer 920mm×700mm×1975mm	Single-layer 980mm×800mm×635mm Dual-layer 980mm×800mm×1200mm Triple-layer 980mm×800mm×1765mm
Net Weight	Single-layer 161kg Dual-layer 289kg Triple-layer 438Kg	Single-layer 132kg Dual-layer 255kg Triple-layer 366kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	435mm	365mm

## ZQZY-CS9/ZQZY-CN ▼

### Stackable Refrigerated Shaking Incubator, High Capacity



Integrated insert frame



Lightweight thermal dissipation frame



Embedded blackout curtain(optional)



Leakage protection



LCD touch screen

#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space.
- ◆ **Layer Design:** The bottom two layers feature downward-opening doors, while the top layer has an upward-opening door.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation.
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirrorfinish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action

#### Specifications

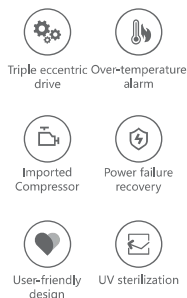
- ◆ **Advanced Refrigeration&Defrost:** Adjustable cooling for precise temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **Automatic Humidity Control(Optional):** external humidity control module replenishes R.O or distilled water and vaporizes it to high-temperature steam into air duct, reaching humidity up to 90%.
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, humidity, CO<sub>2</sub>, speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.
- ◆ **Data Recording & Analysis:** Records up to 5 years of data, including temperature, and humidity curves, with a USB interface for easy export.
- ◆ **Fabric Blackout Curtains(Optional):** Blocks external light to prevent interference during culture.interference during culture.
- ◆ **IQ/OQ/PQ Validation(Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks.
- ◆ **Modbus RS232/RS485/RJ45(Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring(Optional):** Enables remote tracking and management of equipment
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

#### Technical Parameters

Commodity Name	Stackable Refrigerated Shaking Incubator, High Capacity	Stackable Refrigerated Shaking Incubator, High Capacity
Model	Single-layer ZQZY-AS9, Dual-Layer ZQZY-BS9 Triple-layer ZQZY-CS9	Single-layer ZQZY-AN, Dual-Layer ZQZY-BN Triple-layer ZQZY-CN
No-load shaking speed	10-300rpm; 10-250rpm (50mm)	10-300rpm; 10-250rpm (50mm)
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ26mm (standard) , Φ50mm (optional)	Φ26mm (standard) , Φ50mm (optional)
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.5°C (at 37°C)	±0.5°C (at 37°C)
Inside the incubator	R angle (arc angle)	R angle (arc angle)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×18	Single-layer 250ml×36 or 500ml×25 or 1000ml×16 or 2000ml×9
Maximum capacity (plastic clamp)	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15	Single-layer 250ml×30 or 500ml×24 or 1000ml×14 or 2000ml×9
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 1000mm×530mm	Single-layer 555mm×530mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%、50 ~ 60HZ	AC220±10%、50 ~ 60HZ
Overall Dimensions (Length×Width×Height)	Single-layer 1430mm×845mm×630mm Dual-layer 1430mm×845mm×1185mm Triple-layer 1430mm×845mm×1740mm	Single-layer 990mm×845mm×630mm Dual-layer 990mm×845mm×1185mm Triple-layer 990mm×845mm×1740mm
Net Weight	Single-layer 272kg Dual-layer 506kg Triple-layer 728kg	Single-layer 196kg Dual-layer 358kg Triple-layer 498kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	345mm	345mm

## ZQZY-CS8/ZDZY-BS8

### Stackable Refrigerated Shaking Incubator, High Capacity



Integrated insert frame



Leakage protection



LCD touch screen

#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space(ZDZY series up to 2 layers).
- ◆ **Layer Design:** The bottom two layers feature downward-opening doors, while the top layer has an upward-opening door.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation.
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirrorfinish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action

#### Specifications

- ◆ **Advanced Refrigeration&Defrost:** Adjustable cooling for precise temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **Automatic Humidity Control(Optional):** external humidity control module replenishes R.O or distilled water and vaporizes it to high-temperature steam into air duct, reaching humidity up to 90%.
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, humidity, CO<sub>2</sub> speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.
- ◆ **Data Recording & Analysis:** Records up to 5 years of data, including temperature, and humidity curves, with a USB interface for easy export.
- ◆ **Fabric Blackout Curtains(Optional):** Blocks external light to prevent interference during culture.
- ◆ **IQ/OQ/PQ Validation(Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks
- ◆ **Modbus RS232/RS485/RJ45(Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring(Optional):** Enables remote tracking and management of equipment
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

#### Technical Parameters

Commodity Name	Stackable Refrigerated Shaking Incubator, High Capacity	Stackable Refrigerated Shaking Incubator, High Capacity
Model	Single-layer ZQZY-AS8, Dual-layer ZQZY-BS8 Triple-layer ZQZY-CS8	Single-layer ZDZY-AS8, Dual-layer ZDZY-BS8
No-load shaking speed	10-300rpm (Φ26mm) ; 10-250rpm (Φ50mm)	10-300rpm (Φ26mm) ; 10-250rpm (Φ50mm)
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ26mm (standard) 、Φ50mm (optional)	Φ26mm (standard) 、Φ50mm (optional)
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.6°C (at 37°C)	±0.6°C (at 37°C)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15 or 5L×8
Maximum capacity (plastic clamp)	Single-layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15	Single-layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 928mm×530mm	Single-layer 928mm×530mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%、50 ~ 60HZ	AC220±10%、50 ~ 60HZ
Overall Dimensions (Length×Width×Height)	Single-layer 1360mm×845mm×630mm Dual-layer 1360mm×845mm×1185mm Triple-layer 1360mm×845mm×1740mm	Single-layer 1360mm×845mm×750mm Dual-layer 1360mm×845mm×1430mm
Net Weight	Single-layer 210kg Dual-layer 400kg Triple-layer 586kg	Single-layer 218kg Dual-layer 428kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	345mm	465mm

## ZQZY-CF8/ZDZY-BF8 ▼

### Stackable Refrigerated Shaking Incubator, High Capacity



#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space(ZDZY series up to 2 layers).
- ◆ **Layer Design:** The bottom two layers feature downward-opening doors, while the top layer has an upward-opening door.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation.
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirrorfinish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action.

#### Specifications

- ◆ **Advanced Refrigeration&Defrost:** Adjustable cooling for precise temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, humidity, CO<sub>2</sub>, speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.
- ◆ **Data Recording & Analysis:** Records up to 5 years of data, including temperature, with a USB interface for easy export.
- ◆ **Fabric Blackout Curtains(Optional):** Blocks external light to prevent interference during culture.
- ◆ **IQ/OQ/PQ Validation(Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks.
- ◆ **Modbus RS232/RS485/RJ45(Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring(Optional):** Enables remote tracking and management of equipment.
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

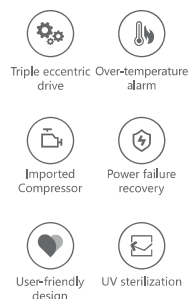
#### Technical Parameters

Commodity Name	Stackable Refrigerated Shaking Incubator, High Capacity	Stackable Refrigerated Shaking Incubator, High Capacity
Model	Single-layer ZQZY-AF8 Dual-layer ZQZY-BF8 Triple-layer ZQZY-CF8	Single-layer ZDZY-AF8 Dual-layer ZDZY-BF8
No-load shaking speed	10-300rpm (Φ26mm) ; 10-250rpm (Φ50mm)	10-300rpm (Φ26mm) ; 10-250rpm (Φ50mm)
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ26mm (standard) 、Φ50mm (optional)	Φ26mm (standard) 、Φ50mm (optional)
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.8°C (at 37°C)	±0.8°C (at 37°C)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15 or 5L×8
Maximum capacity (plastic clamp)	Single-layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15	Single-layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 928mm×530mm	Single-layer 928mm×530mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%、50 ~ 60Hz	AC220±10%、50 ~ 60Hz
Overall Dimensions (Length×Width×Height)	Single-layer 1360mm×845mm×630mm Dual-layer 1360mm×845mm×1185mm Triple-layer 1360mm×845mm×1740mm	Single-layer 1360mm×845mm×730mm Dual-layer 1360mm×845mm×1390mm
Net Weight	Single-layer 206kg Dual-layer 399kg Triple-layer 585kg	Single-layer 210kg Dual-layer 412kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	365mm	465mm



## ZQZY-CF8W/ZQZY-C8 ▼

Stackable Refrigerated Shaking Incubator, High Capacity, Reciprocating



Lightweight thermal dissipation frame



Leakage protection

### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space
- ◆ **Layer Design:** The bottom two layers feature downward-opening doors, while the top layer has an upward-opening door.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation (ZQZY-CF8W eccentric wheel drive).
- ◆ **Elegant & Hygienic:** Powder-coated exterior with rounded mirrorfinish stainless steel interior chamber for easy cleaning and corrosion resistance.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action

### Specifications

- ◆ **Advanced Refrigeration&Defrost:** Adjustable cooling for precise temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.(ZQZY-CF8W only)
- ◆ **Data Recording & Analysis:** Records up to 5 years of data, including temperature and speed, with a USB interface for easy export.(ZQZYCF8W only)
- ◆ **IQ/OQ/PQ Validation(Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks.
- ◆ **Modbus RS232/RS485/RJ45(Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring(Optional):** Enables remote tracking and management of equipment
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

### Technical Parameters

Commodity Name	Refrigerated Shaking Incubator , Reciprocating	Refrigerated Shaking Incubator
Model	Single-layer ZQZY-AF8W, Dual-layer ZQZY-BF8W Triple-layer ZQZY-CF8W	Single-layer ZQZY-A8, Dual-layer ZQZY-B8 Triple-layer ZQZY-C8
No-load shaking speed	10-120rpm	10-300rpm
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ50mm (Standard) 、 Φ100mm (Optional)	Φ26mm (Standard) 、 Φ50mm (Optional)
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.8°C (at 37°C)	±0.8°C (at 37°C)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	Single layer 250ml×60 or 500ml×40 or 1000ml×24	Single layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15
Maximum capacity (plastic clamp)	Single layer 250ml×54 or 500ml×40 or 1000ml×24	Single layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single layer 880mm×530mm	Single layer 928mm×530mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%、50 ~ 60Hz	AC220±10%、50 ~ 60HZ
Overall Dimensions (Length×Width×Height)	Single-layer 1360mm×845mm×630mm Dual-layer 1360mm×845mm×1185mm Triple-layer 1360mm×845mm×1740mm	Single-layer 1360mm×830mm×630mm Dual-layer 1360mm×830mm×1185mm Triple-layer 1360mm×830mm×1740mm
Net Weight	Single-layer 270kg Dual-layer 489kg Triple-layer 688kg	Single-layer 205kg Dual-layer 398kg Triple-layer 584kg
Noise level	Below 60dB	Below 55dB
Distance from shaking platform to top	310mm	365mm

## ZQZY-CSR8/ZQZY-CR8 ▼

### Stackable Refrigerated Shaking Incubator High Capacity & Round-corner Version



Lightweight thermal dissipation frame



Leakage protection



LCD touch screen



Triple eccentric drive



Over-temperature alarm



Imported Compressor



Power failure recovery



UV sterilization



User-friendly design

#### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space
- ◆ **Layer Design:** The bottom two layers feature downward-opening doors, while the top layer has an upward-opening door.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation.
- ◆ **Elegant & Hygienic:** Rounded corners and a streamlined, powdercoated exterior provide a sleek look. The mirror-finish stainless steel interior chamber ensures easy cleaning, corrosion resistance, and reduced bacterial growth.
- ◆ **Clear Observation:** Tempered glass door with a screwless stainless steel frame allows easy viewing without opening.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV timed sterilization for effective germicidal action

#### Specifications

- ◆ **Advanced Refrigeration&Defrost:** Adjustable cooling for precise temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **Automatic Humidity Control(Optional):** external humidity control module replenishes R.O or distilled water and vaporizes it to high-temperature steam into air duct, reaching humidity up to 90%(only optional for ZQZY-CSR8 ).
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, humidity, CO<sub>2</sub>, speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.
- ◆ **Data Recording & Analysis:** Records up to 5 years of data, including temperature and speed with a USB interface for easy export.
- ◆ **Fabric Blackout Curtains(Optional):** Blocks external light to prevent interference during culture.
- ◆ **IQ/OQ/PQ Validation(Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks
- ◆ **Modbus RS232/RS485/RJ45(Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring(Optional):** Enables remote tracking and management of equipment
- ◆ **Photosynthetic Lighting System(Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

#### Technical Parameters

Commodity Name	Stackable Refrigerated Shaking Incubator, Round-corner	Stackable Refrigerated Shaking Incubator, Round-corner
Model	Single-layer ZQZY-ASR8, Dual-layer ZQZY-BSR8 Triple-layer ZQZY-CSR8	Single-layer ZQZY-AR8, Dual-layer ZQZY-BR8 Triple-layer ZQZY-CR8
No-load shaking speed	10-300rpm (Φ26mm) ; 10-250rpm (Φ50mm)	10-300rpm (Φ26mm) ; 10-250rpm (Φ50mm)
shaking speed accuracy	±1rpm	±1rpm
Orbit diameter	Φ26mm (standard) 、Φ50mm (optional)	Φ26mm (standard) 、Φ50mm (optional)
Temperature control range	4 ~ 60°C (RT at 23°C ~ 25°C)	4 ~ 60°C (RT at 23°C ~ 25°C)
Temperature control accuracy	±0.1°C	±0.1°C
Temperature uniformity	±0.6°C (at 37°C)	±0.8°C (at 37°C)
Display mode	LCD (touch screen)	LCD (touch screen)
Convection mode	Forced convection	Forced convection
Control mode	P. I. D microcomputer intelligent control	P. I. D microcomputer intelligent control
Maximum capacity (stainless steel clamp)	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15	Single-layer 250ml×66 or 500ml×45 or 1000ml×28 or 2000ml×15
Maximum capacity (plastic clamp)	Single-layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15	Single-layer 250ml×60 or 500ml×40 or 1000ml×23 or 2000ml×15
Timing range	0-999.9 hours	0-999.9 hours
shaking platform dimensions (Length×Width)	Single-layer 928mm×530mm	Single-layer 928mm×530mm
Standard configuration	Universal clamp(optional fixed fixture)	Universal clamp(optional fixed fixture)
Power Supply	AC220±10%、50 ~ 60HZ	AC220±10%、50 ~ 60HZ
Overall Dimensions (Length×Width×Height)	Single-layer 1360mm×845mm×630mm Dual-layer 1360mm×845mm×1185mm Triple-layer 1360mm×845mm×1740mm	Single-layer 1360mm×845mm×630mm Dual-layer 1360mm×845mm×1185mm Triple-layer 1360mm×845mm×1740mm
Net Weight	Single-layer 210kg Dual-layer 400kg Triple-layer 586kg	Single-layer 206kg Dual-layer 399kg Triple-layer 585kg
Noise level	Below 55dB	Below 55dB
Distance from shaking platform to top	345mm	365mm

## ZQZY-ZD8C ▼

### Automatic Shaking Incubator



Automatic Door



LCD Touch Screen



Triple eccentric drive



Over-temperature alarm



Imported Compressor



Power failure recovery



UV sterilization



User-friendly design

### Overview

- ◆ **Stackable Design:** Configurable with one to three layers, saving space
- ◆ **Layer Design:** Each layer has an automated upward-opening door.
- ◆ **Independent Control:** Each layer can be controlled separately, with the capability to operate at different temperatures and speeds simultaneously.
- ◆ **Triple Eccentric Drive:** Provides smooth, stable, and reliable operation
- ◆ **Elegant & Hygienic:** the mirror-finish stainless steel interior chamber ensures easy cleaning, corrosion resistance.
- ◆ **CFC-Free Refrigerant:** Ensures low noise, effective refrigeration, and stable long-term operation at low temperatures.
- ◆ **Safety Protection:** Includes over-temperature alarm and automatic power-off and stops immediately when the door is opened.
- ◆ **Automatic Restart:** Non-volatile memory ensures smooth recovery after power interruptions.
- ◆ **Ferrite Filter Ring:** Suppresses electromagnetic interference and improves signal quality.
- ◆ **UV Lamp:** UV sterilization for effective germicidal action

### Specifications

- ◆ **Automatic Door:** With automatic door opening and closing function and automatic positioning function
- ◆ **Advanced Refrigeration & Defrost:** Adjustable cooling for precise temperature control with timed defrost to prevent freezing during extended low-temperature operation.
- ◆ **Adjustable Heating Power on Door Glass and Frame:** Optimizes temperature and energy efficiency (ZQZY-CSR8 only).
- ◆ **Automatic Humidity Control (Optional):** external humidity control module replenishes R.O or distilled water and vaporizes it to high temperature steam into air duct, reaching humidity up to 90% (only optional for ZQZY-CSR8).
- ◆ **7" LCD Touch Screen Interface:** Displays and sets temperature, humidity, speed, and time on a single interface. Includes an encrypted lock and customizable shaking platform rotation.
- ◆ **Data Recording & Analysis:** Records up to 5 years of data, including temperature and speed with a USB interface for easy export Fabric Blackout Curtains (Optional): Blocks external light to prevent interference during culture.
- ◆ **IQ/OQ/PQ Validation (Optional):** Ensures quality and reliability through thorough installation, operation, and performance checks
- ◆ **Modbus RS232/RS485/RJ45 (Optional):** Flexible industrial communication options for reliable data exchange across serial and network connections.
- ◆ **Online App Monitoring (Optional):** Enables remote tracking and management of equipment
- ◆ **Photosynthetic Lighting System (Optional):** Offers adjustable light intensity from 1% to 100%, with increments of 1%, reaching up to 30,000 LX. This system is energy-efficient, delivers high light output, and has a long service life, with upgradeable light sources available.

### Technical Parameters

Commodity Name	Automatic Shaking Incubator		
Model	Single-layer ZQZY-ZD8A Dual-layer ZQZY-ZD8B Triple-layer ZQZY-ZD8C	Maximum capacity (stainless steel clamp)	Single-layer 250ml×54 or 500ml×35 or 1000ml×24 or 2000ml×15
No-load shaking speed	10-300rpm	Maximum capacity (plastic clamp)	Single-layer 250ml×48 or 500ml×35 or 1000ml×19 or 2000ml×12
shaking speed accuracy	±1rpm		
Orbit diameter	Φ26mm (standard) Φ50mm (optional)	Timing range	0-999.9小时
Temperature control range	4~60°C (RT at 23°C~25°C)	shaking platform dimensions (Length×Width)	Single-layer 800mm×530mm
Temperature control accuracy	±0.1°C	Standard configuration	Universal clamp (optional fixed fixture)
Temperature uniformity	±0.6°C (at 37°C)	Power Supply	AC220±10%、50~60HZ
		Overall Dimensions (Length×Width×Height)	Single-layer 1360mm×845mm×680mm Dual-layer 1360mm×845mm×1290mm Triple-layer 1360mm×845mm×1900mm
Inside the incubator	R angle (arc angle)	Net Weight	Single-layer 210kg Dual-layer 400kg Triple-layer 586kg
Display mode	LCD (touch screen)	Noise level	Below 55dB
Convection mode	Forced convection	Distance from shaking platform to top	320mm
Control mode	P.I.D microcomputer intelligent control		