



FLOOR STANDING SHAKING INCUBATOR

FLOOR STANDING SHAKING INCUBATOR BEV1Z1

VERTICAL CONSTANT TEMPERATURE SHAKER

A constant temperature cultivation shaker, also known as an oscillator, is a commonly used laboratory equipment that belongs to biochemical instruments. It is widely used for bacterial cultivation, fermentation, hybridization, biochemical reactions, enzyme and tissue research that require high temperature and oscillation frequency. Commonly used liquid shaking, microbial, bacterial, and cell culture in laboratories.



It integrates a constant temperature incubator and an oscillator, saving space, occupying a small area, having multiple functions and requiring less investment. The shell is made of high-quality steel plate and the cavity is composed of mirror-finish stainless steel components, which will never rust.

The whole machine is designed to be silent, with an electrostatically sprayed plastic box body and a tempered glass large viewing window, presenting a luxurious and beautiful appearance.

The tilted and user-friendly control panel features a large-screen backlit LCD display, showing temperature, time, speed and operating status on the same interface.

Operating parameter memory function: In case of an unexpected power outage, it will automatically operate according to the originally set parameters upon power

SPECIFICATIONS

Model	BEV1Z1
Old Model	BSCO-205
Temperature control range	4°C~60°C
Temperature control accuracy	0.1°C
Temperature fluctuation	±0.5°C
Temperature uniformity	±1°C
Display mode	LCD liquid crystal display
Heating method	Stainless steel electric heating
Refrigeration method	Compressor refrigeration
Door opening method	Double doors
Studio volume	Volume ≥300L
Pallet size	710x455mm
Rotational speed range	0, 40-300rpm
Amplitude range	Φ26mm
Quantity of pallets	2 floors
Standard configuration	500mlx60 pieces
Other configurations	150ml/500ml/1000ml/2000ml
Lighting configuration	8W
Overall machine power	1500W
Power supply voltage	220V 50HZ
Safety device	Over-temperature alarm, short-circuit protection, overheat protection, sound and light alarm, load alarm
Optional	1. USB data transmission and processing system for data download and graphing.2. Fixtures can be selected from fixed flask clamps, universal spring clamps, test tube racks, and special-shaped bottle clamps.3. Ultraviolet sterilization function.
Alt Name	Vertical constant temperature shaker

FEATURES

It integrates a constant temperature incubator and an oscillator, saving space, occupying a small area, having multiple functions and requiring less investment.

The shell is made of high-quality steel plate and the cavity is composed of mirror-finish stainless steel components, which will never rust.

The whole machine is designed to be silent, with an electrostatically sprayed plastic box body and a tempered glass large viewing window, presenting a luxurious and beautiful appearance.

The tilted and user-friendly control panel features a large-screen backlit LCD display, showing temperature, time, speed and operating status on the same interface.

Operating parameter memory function: In case of an unexpected power outage, it will automatically operate according to the originally set parameters upon power restoration.

The operation parameter encryption function is adopted to prevent human error.

High-precision speed control: PID feedback control ensures stable and accurate motor speed with an accuracy of ± 1 rpm.

High-precision temperature control: PID feedback control, with a measurement accuracy of 0.1°C . An audible and visual alarm is triggered when the measured temperature deviates from the set value by $\pm 3^{\circ}\text{C}$.

The three-dimensional integrated eccentric three-wheel drive operates smoothly, stably, durable and reliably.

Automatic protection device for motor overheating and temperature out of control.

The slow-start design prevents the liquid in the shake flask from splashing due to sudden start-up, effectively ensuring the safety of the samples.

The most advanced high-torque motor ensures continuous operation without maintenance.

Electronically controlled adjustable closed-loop heating and cooling system. The silent fan design, forced convection and unique air duct design ensure excellent constant temperature effect and temperature uniformity.

The refrigeration mode is automatic. It can automatically adjust the on and off of the refrigeration system according to the changes in ambient temperature without manual operation.

The intelligent refrigeration frost-free operation technology enables the equipment to run stably for a long time at low temperatures, with an automatic defrosting function.

FLOOR STANDING SHAKING INCUBATOR BFS1N1

MICROPLATE SHAKER

Shaker for microplates is a type of high speed shaker, which is with brushless DC motor and microprocessor controlled technique, specially for Elisa plates(96/384 wells, tissue culture plates (24/48/96 wells). The shaker is easy to operate with one touch knob and it can load 4 microplates.



Continuous or timed operation
Easy to operate with one touch knob
Variable speed between 200 to 1,500 rpm
DC brushless motor for gentle and powerful motion
Orbital of 3 mm for efficient mixing in small sample vessels

SPECIFICATIONS

Model	BFS1N1
Old Model	BSTH-109
Speed Range	200-1500 RPM
Timing Range	1 min ~ 99 h 59 min
Speed Increment	10 RPM
Mixing Orbit	3 mm
Capacity	4 microplate

Power	220 V / 120 V, 2 A
Dimensions (L x W x H) mm	280 x 270 x 110 mm
Weight	6.5 kg
MOQ-5PCS	
Alt Name	Microplate Shaker

FLOOR STANDING SHAKING INCUBATOR BFS1M1

HEATING MICROPLATE SHAKER

The shaker for microplates is with the technique of direct brushless DC motor and PID intelligent temperature control. Mainly used for shaking and cultivation in Elisa plates(96/384 wells, tissue culture plates(24/48/96wells).



3mm Mixing orbit
Heated lid prevents condensation
Accepts a variety of microplates
Easy to operate with one touch knob.

SPECIFICATIONS

Model	BFS1M1
Old Model	BSTH-108
Incubation	Incubation range from 8°C above ambient to 70°C
Display Accuracy	0.1°C steps
Temperature Stability	±0.3°C
Warming Up Speed	< 25 min (from 20°C to 70°C)
Orbit Radius	1.5 mm / 1.5 mm orbit radius
Shaking Range	200 to 1600 rpm (increment: 1 rpm)
Shaking Mode	Timed shaking
Shaking Timer Range	0 to 99 hours 59 min in 1 min steps
Continuous Shaking	Continuous shaking - no time limit
Capacity	2 microplates
Power Requirements	110/220 V, 60/50 Hz, max. 150 VA
Dimensions	280 x 270 x 140 mm
MOQ-5PCS	
Alt Name	Heating Microplate Shaker

FLOOR STANDING SHAKING INCUBATOR BEZ1BD1

22°C PLATELET SHAKING INCUBATOR



Accurate microprocessor controller makes the inside temperature within $+22\pm 2^{\circ}\text{C}$ and resolution 0.1°C .

Suggested ambient temperature: $+10\sim 32^{\circ}\text{C}$.

Stainless steel inner chamber and shelves for friendly use and easy cleaning.

Specially designed forced-air cooling system, ensures frost-free cabinet and good temperature uniformity.

Toughened glass door with self-close function.

Wide available voltage range: $220\text{V}\pm 10\%$.

Security

Safety door lock and controller password to prevent unauthorized access.

Built-in backup battery to power the controller and save temp. data when power failure or system error.

SPECIFICATIONS

Model	BEZ1BD1
Old Model	BINC-701
Temperature Range	$20 \sim 24^{\circ}\text{C}$
Ambient Temperature	$10\sim 32^{\circ}\text{C}$
Capacity (L / Cu. Ft.)	108 / 3.81
Interior Dimensions (WxDxH) mm	427x360x467
Exterior Dimensions (WxDxH) mm	522x600x1035
Weight	65 kgs
Noise	49 dB
Oscillation Range	50 mm
Oscillation Frequency	60 times/min
Max Loading of 450ml Blood Bag	10 Bags
Controller	Microprocessor
Display	LCD
Sensor	NTC
Voltage and Frequency	$220\text{V}\pm 10\%$, 50/60Hz
Power	197 W
Electric Current	1.3 A
Power Consumption (kWh/24h)	2.7
High / Low Temp. Alarm	Yes
Power Failure Alarm	Yes, 72h
Sensor Error Alarm	Yes
Controller Error Alarm	Yes
Door Ajar Alarm	Yes
Refrigeration Type	Forced-air Cooling
Defrost	Auto
Compressor (Brand/pcs)	EMBRACO / 1
Refrigerant / Weight	R134a / 53g
Door (pcs)	Self-closing Foamed Glass Door / 1
Drawer (pcs)	5
Interior Cabinet Material	Stainless Steel

Exterior Cabinet Material	Coated Steel
Insulation Material	PURF (845mm)
Door Lock	Yes
LED Lamp	UV Lamp
Test Hole (pcs)	Optional
Castors (pcs)	4
Temperature Printer	Yes
Remote Alarm Port	Yes
USB Data Download Port	Optional
RS485 Port	Optional
Temperature Datalogger	Optional
Package	Plywood box with pallet
Shipping Weight	87 kgs
Shipping Size (WxDxH) mm	700x590x1210
Shipping Volume	0.5 CBM
Alt Name	22°C Platelet Shaking Incubator



FEATURES

Accurate microprocessor controller makes the inside temperature within $+22\pm 2^{\circ}\text{C}$ and resolution 0.1°C .

Suggested ambient temperature: $+10\sim 32^{\circ}\text{C}$.

Stainless steel inner chamber and shelves for friendly use and easy cleaning.

Specially designed forced-air cooling system, ensures frost-free cabinet and good temperature uniformity.

Toughened glass door with self-close function.

Wide available voltage range: $220\text{V}\pm 10\%$.

Security

Safety door lock and controller password to prevent unauthorized access.

Built-in backup battery to power the controller and save temp. data when power failure or system error.

Visual and audible alarm system.

Power failure protection: turn-on delay of the cooling system after power failure.

Controller error protection: the cooling system will remember the normal working cycle and keep working depending on this memory when the controller or two sensors failed.

Humanized design

Special designed service-free drainage system, ensure no water in the cabinet.

4 casters with stopper for easy moving and fixation.

UV sterilization: adjustable sterilization time and auto on/off when the door is closed/opened.

APPLICATIONS

The $+22^{\circ}\text{C}$ blood platelet shaking incubators are specially designed to store platelet for hospitals and blood stations.

FLOOR STANDING SHAKING INCUBATOR BGI1BB1 TO BGI1BB6

SHAKING INCUBATOR



LCD Microprocessor Controller (with timing function)

- Large LCD screen to display more data at same time.
- R134a refrigerant, imported compressor and fan motor.
- Big observation windows.
- 304 Stainless steel chamber and platform, easy to clean.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- The parameters can be automatically stored in case of power failure, and it will continue run as presetting program after turn on.
- Microprocessor PID controller for temperature and shaking speed with timing function.
- The ultraviolet lamp can sterilize the chamber regularly.

SPECIFICATIONS

Model	BGI1BB1	BGI1BB2	BGI1BB3
Old Model	BSFT-101	BSFT-102	BSFT-103
Electrical Requirement	220V 50Hz		
Shaking Speed Range	40~300r/min		
Amplitude	20mm		
Temperature Range	RT+5~65°C		
Display Resolution	±0.8°C (Test point is 37°C)		
Power Consumption	±0.2°C (Test point is 37°C)		
Platform Size	0.1°C		
Default Platform	750W		1100W
Timing Range	400x340		500x350
Exterior Dimension (WxDxH)mm	635x714x1055		725x720x1150
Alt Name	Monolayer	Double-deck	

Model	BGI1BB4	BGI1BB5	BGI1BB6
Old Model	BSFT-104	BSFT-105	BSFT-106
Electrical Requirement	220V 50Hz		
Shaking Speed Range	40~300r/min		
Amplitude	20mm		
Temperature Range	4~65°C		
Display Resolution	±0.8°C (Test point is 37°C)		
Power Consumption	±0.2°C (Test point is 37°C)		
Platform Size	0.1°C		
Default Platform	950W		1300W
Timing Range	400x300	400x340	500x350
Exterior Dimension (WxDxH)mm	635x714x1055		725x720x1150
Alt Name	Monolayer	Double-deck	

FEATURES

LCD Microprocessor Controller (with timing function)

- Large LCD screen to display more data at same time.
- R134a refrigerant, imported compressor and fan motor.

- Big observation windows.
- 304 Stainless steel chamber and platform, easy to clean.
- There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement.
- The parameters can be automatically stored in case of power failure, and it will continue run as presetting program after turn on.
- Microprocessor PID controller for temperature and shaking speed with timing function.
- The ultraviolet lamp can sterilize the chamber regularly.

Safety:

- Safety door switch, auto pause operation when door is opened.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Self-diagnosis function, it will display error when failure.

Option:

- Temperature-limiting alarm system, auto switch off when over-temperature.
- RS485 connector or USB interface can connect computer record and inspect the parameters and the variations of temperature.
- Intelligent programmable temperature controller.

FLOOR STANDING SHAKING INCUBATOR BEZ1BE1

22°C PLATELET SHAKING INCUBATOR



An accurate microprocessor controller makes the inside temperature within $+22\pm 2^{\circ}\text{C}$ and resolution 0.1°C .
 Suggested ambient temperature: $+10\sim 32^{\circ}\text{C}$.
 Stainless steel inner chamber and shelves for friendly use and easy cleaning.
 Specially designed forced-air cooling system, ensures frost-free cabinet and good temperature uniformity.
 Toughened glass door with self-close function.
 Wide available voltage range: $220\text{V}\pm 10\%$.
Security
 Safety door lock and controller password to prevent unauthorized access.
 Built-in backup battery to power the controller and save temp. data when power failure or system error.

SPECIFICATIONS

Model	BEZ1BE1
Old Model	BINC-702
Temperature Range	$20 \sim 24^{\circ}\text{C}$
Ambient Temperature	$10\sim 32^{\circ}\text{C}$
Capacity (L / Cu. Ft.)	158 / 5.58
Interior Dimensions (WxDxH) mm	432x462x728
Exterior Dimensions (WxDxH) mm	522x600x1285
Weight	85 kgs
Noise	50 dB
Oscillation Range	50 mm
Oscillation Frequency	60 times/min
Max Loading of 450ml Blood Bag	20 Bags
Controller	Microprocessor
Display	LCD

Sensor	NTC
Voltage and Frequency	220V±10%, 50/60Hz
Power	280 W
Electric Current	1.5 A
Power Consumption (kWh/24h)	4.4
High / Low Temp. Alarm	Yes
Power Failure Alarm	Yes, 72h
Sensor Error Alarm	Yes
Controller Error Alarm	Yes
Door Ajar Alarm	Yes
Refrigeration Type	Forced-air Cooling
Defrost	Auto
Compressor (Brand/pcs)	EMBRACO / 1
Refrigerant / Weight (kgs)	R134a / 53g
Door (pcs)	Self-closing Foamed Glass Door / 1
Drawer (pcs)	10
Interior Cabinet Material	Stainless Steel
Exterior Cabinet Material	Coated Steel
Insulation Material	PURF (δ45mm)
Door Lock	Yes
LED Lamp	UV Lamp
Test Hole (pcs)	Optional
Castors (pcs)	4
Temperature Printer	Yes
Remote Alarm Port	Yes
USB Data Download Port	Optional
RS485 Port	Optional
Temperature Datalogger	Optional
Package	Plywood box with pallet
Shipping Weight	109 kgs
Shipping Size (WxDxH) mm	590x710x1450
Shipping Volume	0.61 CBM
Alt Name	22°C Platelet Shaking Incubator



FEATURES

An accurate microprocessor controller makes the inside temperature within $+22\pm2^{\circ}\text{C}$ and resolution 0.1°C .

Suggested ambient temperature: $+10\sim32^{\circ}\text{C}$.

Stainless steel inner chamber and shelves for friendly use and easy cleaning.

Specially designed forced-air cooling system, ensures frost-free cabinet and good temperature uniformity.

Toughened glass door with self-close function.

Wide available voltage range: $220\text{V}\pm10\%$.

Security

Safety door lock and controller password to prevent unauthorized access.

Built-in backup battery to power the controller and save temp. data when power failure or system error.

Visual and audible alarm system.

Power failure protection: turn-on delay of the cooling system after power failure.

Controller error protection: the cooling system will remember the normal working cycle and keep working depending on this memory when the controller or two sensors failed.

Humanized design

Special designed service-free drainage system, ensure no water in the cabinet.

4 casters with stopper for easy moving and fixation.

UV sterilization: adjustable sterilization time and will turn off automatically when the door is open.

APPLICATIONS

The +22°C blood platelet shaking incubators are specially designed to store platelet for hospitals and blood stations.

FLOOR STANDING SHAKING INCUBATOR BGI1BC1 TO BGI1BC4

SHAKING INCUBATOR



LCD Microprocessor Controller (with timing function)

- Intelligent LCD screen control, parameters real time display, operation easily.
- Temp, rotation speed and time etc parameters fast setting.
- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on.
- Combine incubator, shaker functions together with small space, huge capacity
- Silent running
- Big transparent big view windows, platform and chamber are made of stainless steel, anticorrosion and easy to clean.
- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.

SPECIFICATIONS

Model	BGI1BC1	BGI1BC2	BGI1BC3	BGI1BC4
Old Model	BSBT-2201	BSBT-2202	BSBT-2203	BSBT-2204
Electrical Requirement	220V 50Hz			
Shaking Speed Range	40~300r/min			
Amplitude	26mm			
Temperature Range	RT+5~65℃		4~65℃	
Display Resolution	0.1℃			
Temperature Uniformity	±1℃ (Test point is 37℃)			
Temperature Fluctuation	±0.2℃ (Test point is 37℃)			
Power Consumption	1050W		1300W	
Platform Size (mm)	750x460	920x500	750x460	920x500
Standard Configuration	250mlx28	250mlx45	250mlx28	250mlx45
External Dimension (WxDxH)mm	1080x620x915	1250x660x915	1080x620x915	1250x660x915
Timing Range	0~5999min			
Alt Name	Shaking Incubator			

FEATURES

LCD Microprocessor Controller (with timing function)

- Intelligent LCD screen control, parameters real time display, operation easily.
- Temp, rotation speed and time etc parameters fast setting.
- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on.
- Combine incubator, shaker functions together with small space, huge capacity
- Silent running
- Big transparent big view windows, platform and chamber are made of stainless steel, anticorrosion and easy to clean.
- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.
- Three-eccentric axis balance drive ensures all samples in the shaker platform movements at the same rotation frequency. Durable structure guarantees the shaker incubator can work properly no matter full load or high speed working.
- The ultraviolet lamp can sterilize the chamber regularly.
- Fluorine free design, environmental non-free refrigerants.

Safety

- Safety door switch, auto pause operation when door is opened.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Self-diagnosis function, it will display error when failure.
- Temperature-limiting alarm system, auto switch off when over-temperature.

Option

- RS485 connector or USB interface can connect computer record and inspect the parameters and the variations of temperature.
- Intelligent programmable temperature controller.
- Embedded Printer.

FLOOR STANDING SHAKING INCUBATOR BGI2S1 TO BGI2S4

SHAKER INCUBATOR



Colorful intelligent touch screen control:

Adopt 4.3 inches touch screen , intelligent touch screen control, parameters real time display, operation easily.

Temp., rotation speed and time etc parameters fast setting.

Humanization design:

Combine incubator, shaker functions together with small space, huge capacity.

Colorful touch screen controller, menu operation interface, multi datas display at one screen, easily to observe and operate.

Fluorine free design.

Large toughened glass windows provides users observe the samples status with good insulation when instruments working.

Various kinds of clamps and racks for selection, easily change racks and clamps

SPECIFICATIONS

Model	BGI2S1	BGI2S2	BGI2S3	BGI2S4
Old Model	BSFT-1801	BSFT-1802	BSFT-1803	BSFT-1804
Power supplies	AC220V 50HZ			
Speed range	40 - 300rpm			
Amplitude	20mm			
Control temp. range	RT+5 - 65°C	4 - 65°C	RT+5 - 65°C	4 - 65°C

Temp. resolution	0.1°C			
Uniformity (at 37°C)	±0.5°C			
Timer range	0 - 99h59min			
Platform size (mm)	400x340		500x420	
Overall size WxDxH (mm)	635x714x1055		725x720x1150	
Rated power	750W	950W	1100W	1300W
Alt Name	Small Vertical Shaker Incubator			

FEATURES

Colorful intelligent touch screen control:

Adopt 4.3 inches touch screen , intelligent touch screen control, parameters real time display, operation easily.

Temp., rotation speed and time etc parameters fast setting.

Humanization design:

Combine incubator, shaker functions together with small space, huge capacity.

Colorful touch screen controller, menu operation interface, multi datas display at one screen, easily to observe and operate.

Fluorine free design.

Large toughened glass windows provides users observe the samples status with good insulation when instruments working.

Various kinds of clamps and racks for selection, easily change racks and clamps improve work efficient.

Inner chamber, shaker platform and shelves are made of 304 stainless steel

On the left of chamber is placed with 50mm test hole.

Quality guaranty:

- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on.
- PID microcomputer control temp. and shake frequency with timer.
- Compressor and cycle fan etc key components are reliable suppliers, environmental non-free refrigerants.

Uninterrupted performance guaranty:

- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.

Sterilization system:

- The ultraviolet lamp can sterilize the chamber regularly.

Safety:

- Protection on instruments: Comply international standard secondary temp. limiter alarm system, alert the operator with sound and light alarms, ensure operator is safe without any accident.
- Protection on key components: Key components have over current, over temp., over load etc safety protection, it can prevent instruments accidents without precautions.
- Protection on samples: Working chamber temperature higher or lower the set temp., alarm starter cut down the heater, alert the operator with sound and light alarms.
- Protection on operator: Cabinet and door is special designed for insulation, low heat of cabinet body, ensure operator use instrument without burnt.
- Breakdown message provided: When the instrument breakdown, the breakdown messages show on the screen to help operator easily check.

Three-eccentric axis balance drive:

- Three-eccentric axis balance drive ensures all samples in the shaker platform movements at the same rotation frequency. Durable structure guarantees the shaker incubator can work properly no matter full load or high speed working.

Multi-segment programmable control:

- Multi-segment temp., speed, time program at the same time.
- It has normal mode or programmable mode for running. Preset parameter and work data can be shown at the same time. It simplified complicated culture requirements and realize auto control and run.

Feature extension (Option):

- CO₂ concentration monitor and control.
- Lighting control (Stimulate the nature growth environment).
- Humidity monitor and control.

APPLICATIONS

Widely used in cell culture, fermentation, hybridization, biochemistry and cell tissue research with high temperature and concussion frequency. It can culture microbial cells and various types of bacteria in static and movement, especially suitable for laboratory pilot production.

MORE INFO

Max. flask clamps can be placed (single layer)

Flask (pcs)	BSI9 / BSI9C	BSI30 / BSI30C
50 mL	29	55
100 mL	18	30
250 mL	11	20
500 mL	7	12
1000 mL	4	10
2000 mL	-	6

FLOOR STANDING SHAKING INCUBATOR BER1BB1 TO BER1BB6

VERTICAL CONSTANT TEMPERATURE SHAKER (LCD)



1. Imported compressors, imported bearings, servo motors.
2. Air duct design, not direct blowing, good temperature uniformity.
3. The minimum speed is 10rpm.it can start and stop at ultra-low speed to protect the sample.
4. Make an appointment to start the function.
5. Solenoid valve defrost function can ensure long-term low temperature operation.
6. Can be set to run forward, reverse, and alternately run.

SPECIFICATIONS

Model	BER1BB1	BER1BB2	BER1BB3
Control Mode	PID microcomputer processing chip		
Cycle Mode	Forced convection		
Shaking Mode	Convolution		
Display Mode	LCD liquid crystal display		
Drive Mode	Multidimensional drive		
USB data download system			Yes (optional)
Control System	Standard mode; continuous mode; programmable mode		
Rotary Speed Range (rpm)	0, 20-350 (Can do static training, forward and reverse)		
Rotary Accuracy (rpm)	±1		
Amplitude (mm)	Φ26	Φ26 customizable Φ35 (20-250rpm/min), Φ50 (20-2000rpm/min)	

Max Capacity (clamp)	100ml*60 or 250ml*38 or 250ml*22 or 1L*16		100ml*100 or 250ml*56 or 500ml*44 or 1L*24
Max Capacity (stick mat)	100ml*60 or 250ml*36 or 500ml*24 or 1L*16		100ml*120 or 250ml*70 or 500ml*44 or 1L*24
Standard configuration	250ml*24		250ml*28 500ml*22
Plate Size (mm)	500*360		710*455
Timer Range (h/min)	0-9999 (with timing function, continuous operating)		
Temperature Range (°C)	Ambient temperature+5~65	4-65 (25°C)	Ambient temperature+5~65
Temperature Accuracy (°C)	±0.1		
Temperature Uniformity (°C)	±0.5 (37°C, Effective Working Area)		
Temperature Motion (°C)	<0.1 (37°C)		
Tray Quantity	2 (pieces)		
External Size (mm)	700*580*1280		950*700*1280
Capacity (L)	175		335
Power (W)	600	850	900
Power Supply	AC220 ± 10% 50-60HZ		
Ambient Temperature (°C)	5-30		
Additional Function	Ultra-low start, adjustable start speed, automatic overspeed protection, watchdog timer, parameter memory, call recovery, refrigeration unit overload protection and call delay start, automatic defrost, upper and lower limit temperature sound and light alarm, automatic stop when the door is opened (optional), with lighting, ultraviolet disinfection function (optional), setting parameter view, monitoring temperature and correction of ambient temperature. Touch screen (optional)		
Alt Name	Vertical Constant Temperature Shaker (LCD)		

Model	BER1BB4	BER1BB5	BER1BB6
Control Mode	PID microcomputer processing chip		
Cycle Mode	Forced convection		
Shaking Mode	Convolution		
Display Mode	LCD liquid crystal display		
Drive Mode	Multidimensional drive		
USB data download system	Yes (optional)		
Control System	Standard mode; continuous mode; programmable mode		
Rotary Speed Range (rpm)	0, 20-350 (Can do static training, forward and reverse)	0, 20-280 (Can do static training, forward and reverse)	
Rotary Accuracy (rpm)	±1		
Amplitude (mm)	Φ26 customizable Φ35 (20-250rpm/min), Φ50 (20-2000rpm/min)		
Max Capacity (clamp)	100ml*100 or 250ml*56 or 500ml*44 or 1L*24	250ml*90 or 500ml*72 or 1000ml*42	
Max Capacity (stick mat)	100ml*120 or 250ml*70 or 500ml*44 or 1L*24	250ml*112 or 500ml*76 or 1000ml*42	
Standard configuration	250ml*28 500ml*22	250ml*45 500ml*36	
Plate Size (mm)	710*455	950*550	
Timer Range (h/min)	0-9999 (with timing function, continuous operating)		
Temperature Range (°C)	4-65 (25°C)	Ambient temperature+5~65	4-65 (25°C)
Temperature Accuracy (°C)	±0.1		
Temperature Uniformity (°C)	±0.5 (37°C, Effective Working Area)		
Temperature Motion (°C)	<0.1 (37°C)		
Tray Quantity			
External Size (mm)	950*700*1280	1200*800*1630	
Capacity (L)	335	580	

Power (W)	1150	1100	1250
Power Supply	AC220 ± 10% 50-60HZ		
Ambient Temperature (°C)	5-30		
Additional Function	Ultra-low start, adjustable start speed, automatic overspeed protection, watchdog timer, parameter memory, call recovery, refrigeration unit overload protection and call delay start, automatic defrost, upper and lower limit temperature sound and light alarm, automatic stop when the door is opened (optional), with lighting, ultraviolet disinfection function (optional), setting parameter view, monitoring temperature and correction of ambient temperature. Touch screen (optional)		
Alt Name	Vertical Constant Temperature Shaker (LCD)		



FLOOR STANDING SHAKING INCUBATOR BGI1BD1 TO BGI1BD4

SHAKING INCUBATOR



LCD Microprocessor Controller (with timing function)

- Combine incubator, shaker functions together with small space, huge capacity.
- Intelligent LCD screen, Temp., rotation speed and time etc parameters fast setting and display at one screen, parameters real time display, easily to observe and operate.
- Fluorine free design, environmental non-free refrigerants.
- Large toughened glass windows provides users observe the samples status with good insulation when instruments working.
- Various kinds of clamps and racks for selection, easily change racks and clamps improve work efficient.
- Inner chamber, shaker platform and shelves are made of 304 stainless steel.
- On the left of chamber is placed with 50mm test hole.

SPECIFICATIONS

Model	BGI1BD1	BGI1BD2	BGI1BD3	BGI1BD4
Old Model	BSFT-2301	BSFT-2302	BSFT-2303	BSFT-2304
Electrical Requirement	220V 50Hz			
Shaking Speed Range	40~300r/min			
Amplitude	26mm			
Temperature Range	RT+5~65℃		4~65℃	
Temperature Uniformity	±1℃ (Test point is 37℃)			
Temperature Fluctuation	±0.2℃ (Test point is 37℃)			
Display Resolution	0.1℃			
Timing Range	0~5999min			
Power Consumption	1900W		2250W	
Platform Size (mm)	750x460x2pcs	920x500x2pcs	750x460x2pcs	920x500x2pcs
Standard Configuration	250mlx28PCS x 2	250mlx45 x 2	250mlx28PCS x 2	250mlx45 x 2

External Dimension (WxDxH)mm	1050x875x1370	1200x875x1370	1050x875x1370	1200x875x1370
Alt Name	Shaking Incubator			

FEATURES

LCD Microprocessor Controller (with timing function)

- Combine incubator, shaker functions together with small space, huge capacity.
- Intelligent LCD screen, Temp., rotation speed and time etc parameters fast setting and display at one screen, parameters real time display, easily to observe and operate.
- Fluorine free design, environmental non-free refrigerants.
- Large toughened glass windows provides users observe the samples status with good insulation when instruments working.
- Various kinds of clamps and racks for selection, easily change racks and clamps improve work efficient.
- Inner chamber, shaker platform and shelves are made of 304 stainless steel.
- On the left of chamber is placed with 50mm test hole.
- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on.
- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.
- The ultraviolet lamp can sterilize the chamber regularly.

Safety

- Safety door switch, auto pause operation when door is opened.
- Smooth start and stop system prevents liquid spillage.
- Auto-controller of fan speed to prevent damage to the samples.
- Self-diagnosis function, it will display error when failure.
- Temperature-limiting alarm system, auto switch off when over-temperature.

Option

- RS485 connector or USB interface can connect computer record and inspect the parameters and the variations of temperature.
- Intelligent programmable temperature controller.
- Embedded Printer.

FLOOR STANDING SHAKING INCUBATOR BGI2R1 TO BGI2R4

CHEST TYPE SHAKER INCUBATOR



Colorful intelligent touch screen control:

1. Adopt 4.3 inches touch screen , intelligent touch screen control, parameters real time display, operation easily.
2. Temp, rotation speed and time etc parameters fast setting.

Humanization design:

Combine incubator, shaker functions together with small space, huge capacity. Colorful touch screen controller, menu operation interface, multi data display at one screen, easily to observe and operate.

Silent running.

Fluorine-free design, environmental friendly.

Big transparent big view windows, platform and chamber are made of stainless steel, anti-corrosion and easy to clean.

SPECIFICATIONS

Model	BGI2R1	BGI2R2	BGI2R3	BGI2R4
Old Model	BSFT-1901	BSFT-1902	BSFT-1903	BSFT-1904
Power supplies	AC220V 50HZ			
Speed range	40 - 300 rpm			
Amplitude	26mm			

Control temp. range	RT+5 - 80°C		4 - 80°C	
Temp. resolution	0.1°C			
Timer range	1 - 99h59min			
Rated power	1050W		1300W	
Platform size (mm)	750x460	920x500	750x460	920x500
Overall size WxDxH (mm)	1060x680x910	1200x730x930	1060x680x910	1200x730x930
Standard configuration	250mlx28	250mlx45	250mlx28	250mlx45
Alt Name	Chest Type Shaker Incubator			

FEATURES

Colorful intelligent touch screen control:

1. Adopt 4.3 inches touch screen , intelligent touch screen control, parameters real time display, operation easily.
2. Temp, rotation speed and time etc parameters fast setting.

Humanization design:

Combine incubator, shaker functions together with small space, huge capacity.

Colorful touch screen controller, menu operation interface, multi data display at one screen, easily to observe and operate.

Silent running.

Fluorine-free design, environmental friendly.

Big transparent big view windows, platform and chamber are made of stainless steel, anti-corrosion and easy to clean.

Quality guaranty:

- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on.
- PID microcomputer control temp. and shake frequency with timer.
- Compressor and cycle fan etc key components are reliable suppliers, environmental non-free refrigerants.

Uninterrupted performance guaranty:

- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.

Three-eccentric axis balance drive:

- Three-eccentric axis balance drive ensures all samples in the shaker platform movements at the same rotation frequency.
- Durable structure guarantees the shaker incubator can work properly no matter full load or high speed working.

Convenient data process:

- Equip with USB as options, record temp. parameter changes (option).
- Equip with RS232 data interface, through software to remote control machine performance (option).
- Above two options can be selected only one.

Sterilization system:

- The ultraviolet lamp can sterilize the chamber regularly.

Safety:

- Protection on instruments: Comply international standard secondary temp. limiter alarm system, alert the operator with sound and light alarms, ensure operator is safe without any accident.
- Protection on key components: Key components have over current, over temp., over load etc safety protection, it can prevent instruments accidents without precautions.
- Protection on samples: Working chamber temperature higher or lower the set temp., alarm starter cut down the heater, alert the operator with sound and light alarms.
- Protection on operator: Cabinet and door is special designed for insulation, low heat of cabinet body, ensure operator use instrument without burnt.
- Breakdown message provided: When the instrument breakdown, the breakdown messages show on the screen to help operator easily check.

Multi-segment programmable control:

- Multi-segment temp., speed, time program at the same time.

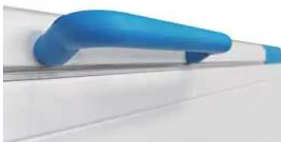
- It has normal mode or programmable mode for running. Preset parameter and work data can be shown at the same time. It simplified complicated culture requirements and realize auto control and run.

Feature extension (option):

- CO₂ concentration monitor and control.
- Lighting control.
- Humidity control.



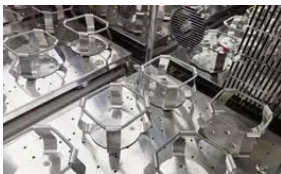
USB interface



PU foamed handle



25mm test hole



304 mirror stainless steel



Pneumatic gas spring holder



Pressure balance hole

APPLICATIONS

Floor standing Shaker incubator combines incubator and shaker functions together, it uses new outlook design with big touch screen., Adopt the latest technology of motor driven system, large torque, stable work, low noise and fast heat dissipation and long lifetime. It is widely used Cell culture, fermentation, biochemistry, enzyme research experiment or medium production experiment. Especially suitable for medium production, it solves the user's problem by advanced design and high precise manufacturing art craft.

MORE INFO

Max. flask clamps can be placed (single layer)

Flask (pcs)	BSI21 / BSI21C	BSI31 / BSI31C
50 ml	82	116
100 ml	50	66
250 ml	28	45
500 ml	23	28
1000 ml	15	18
2000 ml	8	13

FLOOR STANDING SHAKING INCUBATOR BGI2T1 TO BGI2T4

LARGE VERTICAL SHAKER INCUBATOR



Colorful intelligent touch screen control:

Adopt 4.3 inches touch screen, intelligent touch screen control, parameters real time display, operation easily.

Temp., rotation speed and time etc parameters fast setting.

Humanization design:

Combine incubator, shaker functions together with small space, huge capacity.

Colorful touch screen controller, menu operation interface, multi datas display at one screen, easily to observe and operate.

Fluorine free design.

Large toughened glass windows provides users observe the samples status with good insulation when instruments working.

Various kinds of clamps and racks for selection, easily change racks and clamps

SPECIFICATIONS

Model	BGI2T1	BGI2T2	BGI2T3	BGI2T4
Old Model	BSFT-2001	BSFT-2002	BSFT-2003	BSFT-2004
Speed range	40 - 300rpm			
Frequency accuracy	±1rpm			
Amplitude	26mm			
Control temp. range	RT+5 - 65°C	4 - 65°C	RT+5 - 65°C	4 - 65°C
Temp. resolution	±0.1°C			
Temp. uniformity	at 37°C±0.8°C			
Timer range	0 - 99h59min			
Shelves size (mm)	750x460 (double shelves)		920x500 (double shelves)	
Overall size WxDxH (mm)	1030x875x1370		1200x875x1370	
Rated power	1900W	2250W	1900W	2250W
Standard configuration	250mLx56pcs		250mLx90pcs	

Alt Name	Large Vertical Shaker Incubator
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FEATURES

Colorful intelligent touch screen control:

Adopt 4.3 inches touch screen, intelligent touch screen control, parameters real time display, operation easily.

Temp., rotation speed and time etc parameters fast setting.

Humanization design:

Combine incubator, shaker functions together with small space, huge capacity.

Colorful touch screen controller, menu operation interface, multi datas display at one screen, easily to observe and operate.

Fluorine free design.

Large toughened glass windows provides users observe the samples status with good insulation when instruments working.

Various kinds of clamps and racks for selection, easily change racks and clamps improve work efficient.

Inner chamber, shaker platform and shelves are made of 304 stainless steel.

On the left of chamber is placed with 50mm test hole.

Quality assurance.

Quality guaranty:

- User's set parameters can be stored automatically when power off suddenly, and it resume last program settings when power on.
- PID microcomputer control temp. and shake frequency with timer.
- Compressor and cycle fan etc key components are reliable suppliers, environmental non-free refrigerants.

Uninterrupted performance guaranty:

- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.

Sterilization system:

- The ultraviolet lamp can sterilize the chamber regularly.

Safety:

- Protection on instruments: Comply international standard secondary temp. limiter alarm system, alert the operator with sound and light alarms, ensure operator is safe without any accident.
- Protection on key components: Key components have over current, over temp., over load etc safety protection, it can prevent instruments accidents without precautions.
- Protection on samples: Working chamber temperature higher or lower the set temp., alarm starter cut down the heater, alert the operator with sound and light alarms.
- Protection on operator: Cabinet and door is special designed for insulation, low heat of cabinet body, ensure operator use instrument without burnt.
- Breakdown message provided: When the instrument breakdown, the breakdown messages show on the screen to help operator easily check.

APPLICATIONS

Widely used in cell culture, fermentation, hybridization, biochemistry and cell tissue research with high temperature and concussion frequency. It can culture microbial cells and various type of bacteria in static and movement, especially suitable for laboratory pilot production.

MORE INFO

Max. flask clamps can be placed (single layer)

Flask (pcs)	BSI52 / BSI52C	BSI72 / BSI72C
50 mL	82	116
100 mL	50	66
250 mL	28	45
500 mL	23	28
1000 mL	12	18
2000 mL	6	10



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