Incubator

CO_2 incubator

RT +5~60 °C / 40 -180 - 260 - 650 - 850 - 1200 L

Peltier-cooled CO_2 incubator

20~60 °C / 40 - 180 - 260 - 650 - 850 L

Tri-gas incubator [N_2 / O_2 / CO_2]

RT +5~60 °C / 40 - 180 - 850 L

Constant temperature Incubator

RT +5~60 °C / 50 - 100 - 150- 260 L

Large-scale Constant Temperature Incubator

RT +7~60 °C / 1200 L

Peltier-cooled incubator

+4~6 0 °C / 15 - 50 L

+10~60 °C / 100 - 150 L

Cell Culture Roller Rack

Shaker for CO_2 Incubator

CO_2 Incubator

The incubator is ideal for the experiments of the cultivation of animal cells, sperm/ovum, anaerobic cells, all sorts of microbe cells, hatching/germinating and special tissues.

Features

Fast Heat-Up, Fast-Recovery, Stable Control

7-inch Touchscreen

Displays CO_2 concentration and temperature data in real time. USB flash drive allows for the storage of historical data information.

6 Sides Direct Heating System

Electric heating wire is covered on all sides of the chamber which makes stable uniformity and provides fast heat-up & temperature recovery.
3 parts of heating section are controlled and calibrated individually by 3 temperature sensors.

Dry Wall and Air Jacket

Warm air from heating wire is preserved in space between the chamber and the insulation layer. It helps temperature recover faster and minimize heat loss.
Dry wall with insulation requires no regular maintenance.

DUAL BEAM IR CO_2 Sensor

Fast & precise detection for CO_2 gas regardless of temperature and humidity.

Natural Humidification Using Water Tray

The heater on bottom side warms the water in tray and it makes humidification. The circulation fan delivers the moisture formed from the water in the entire chamber.

Specifications

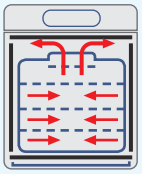
Temp. Range:	RT +5~60°C
Temp. Resolution:	0.1°C
Dry Heat:	Up to 125°C
Temp. Control:	Digital PID
CO_2 Range:	0.1% ~ 20%
CO_2 Accuracy:	±0.1% (5% / 37°C)
CO_2 Resolution:	0.1%
CO_2 Sensor:	IR CO_2 Sensor
Display:	TFT Touchscreen
IP code:	IP20
Operating panel:	Touchscreen Control Panel
Jacket type:	Air Jacket Type (6 sides heat)
Chamber material:	Stainless Steel (304)

Model		BCI-40	BCI-180
Order No.	Standard	B6X11040	B6X11180
	Sterilization	B6X12040	B6X12180
Chamber volume (L)		40	120
Temperature Stability (°C)		±0.1 （37°C）	±0.1 （37°C）
Temp. Uniformity (°C)		±0.3 (at 37°C / RT20°C)	±0.3 (at 37°C / RT20°C)
Heating Capacity (W)		320	320
CO_2 Inlet pressure range (bar)		0.3~0.5	0.3~0.5
Number of shelves (included / max.)		2/4	3/8
Chamber dimension (WxDxH)mm		320x350x375	480x470x520
Overall dimension (WxDxH])mm		420x460x570	580x560x765
Weight (kg)		38	80

Standard package includes: incubator, shelves, water tray.

Alarm System

Buzzer to alarm low or high deviation of CO_2, Temperature.



Gentle Air and Moisture Convection

Natural Air and Moisture Convection, Air and Moisture in chamber are distributed gentlely by 6-side heating and air circulation fan.

Easy to clean

Rounded corner allows easy cleaning. The entire chamber is made of stainless steel (SUS304).

Over Heating Limit

Heating is automatically cut by safety device when temperature control fails or there is excessive heating over set point.

Perforated Shelves

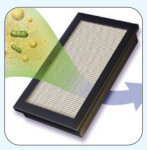
Perforated shelves are good for natural air flows and are made of stainless steel which is resistant to rust and contamination.

No Condensation

Heating by front door heater & frame heater prevents condensation in the chamber and on the glass door.

Microprocessor PID Control

Intelligence Control for CO_2 density, Temperature, Alarm, Automatic Decontamination (Optional).



HEPA filtration of the chamber

Options

Customize your incubator with these options.

Access port

30mm Access Port is available at left side. (Upon ordering and additional charge).

UV sterilization

4W UV is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach sample and sterilization is operated during culturing.

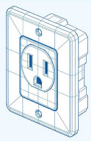
Maximum 125°C dry hot air sterilization.
No need to remove IR CO_2 sensor.

Monitoring System

Connection port has been designed to observe the status of equipments in real time even in the far distance.

Reduce gas consumption and heat loss, enabling faster recovery—ideal for various samples.

5 Split Door for BCI-40.
6 Split Door for BCI-180.



Power socket in chamber

Three-jack socket, 220V, for power supply inside the chamber, not exceed 1000W

Model		BCI-260	BCI-650	BCI-850	BCI-1200
Order No.	Standard	B6X11260	B6X11650	B6X11850	B6011122*
	Sterilization	B6X12260	B6X12650	B6X12850	-
Chamber volume (L)		260	650	850	1200
Temperature Stability (°C)		±0.1 (37°C)	±0.1 (37°C)	±0.1 (37°C)	±0.1 (37°C)
Temp. Uniformity (°C)		±0.4 (37°C / RT20°C)	±0.5 (37°C / RT20°C)	±0.5 (37°C / RT20°C)	±0.5 ~0.7 (37°C / RT20°C)
Heating Capacity (W)		610	1100	1400	1600
CO_2 Inlet pressure range (bar)		0.6~0.7	0.7~1.0	0.7~1.0	0.7~1.0
Number of shelves (included / max.)		3/8	3/15	3/15	0/15
Chamber dimension (WxDxH) mm		590x530x900	700x650x1430	700x800x1530	868x720x1927
Overall dimension (WxDxH) mm		630x680x1125	820x780x1740	820x930x1840	990x855x2123
Weight (kg)		115	230	260	323

Standard package includes: incubator, shelves, water tray.
* BCI- 1200 Standard package includes: incubator only, without shelves.Special designed for Roller Rack.

Peltier-cooled CO_2 Incubator

This CO_2 incubator series integrates heating and Peltier cooling systems, representing an advancement in environmentally friendly and energy-efficient temperature management technologies. These innovations ensure exceptional control accuracy with minimal fluctuations.

Specifications

Temp. Range:	+20~60 °C
Temp. Resolution:	0.1 °C
Dry Heat:	Up to 125 °C
Temp. Control:	Digital PID
CO_2 Range:	0.1% ~ 20%
CO_2 Accuracy:	±0.1% (5% / 37 °C)
CO_2 Resolution:	0.1%
CO_2 Sensor:	IR CO_2 Sensor
Display:	TFT
IP code:	IP20
Jacket type:	Dry Wall Type (6 sides heat)
Chamber material:	Stainless Steel (304)

Model		BCI-40P	BCI-180P
Order No.	Standard	B6X13040	B6X13180
	Sterilization	B6X14040	B6X14180
Chamber volume (L)		40	180
Temperature Stability (°C)		±0.1 (37°C)	±0.1 (37°C)
Temp. Uniformity (°C)		±0.3(37°C / RT20°C)	±0.3(37°C / RT20°C)
Heating Capacity (W)		320	320
CO_2 Inlet pressure range (bar)		0.3~0.5	0.3~0.5
Number of shelves (included / max.)		2/4	3/8
Chamber dimension (WxDxH) mm		320x350x375	528x473x710
Overall dimension (WxDxH) mm		420x520x570	560x680x945
Weight (kg)		42	85

Model		BCI-260P	BCI-650P	BCI-850P
Order No.	Standard	B6X13260	B6X13650	B6X13850
Chamber volume (L)		260	650	850
Temperature Stability (°C)		±0.1 (37°C)	±0.1 (37°C)	±0.1 (37°C)
Temp. Uniformity (°C)		±0.4 (37°C / RT20°C)	±0.5 (37°C / RT20°C)	±0.5 (37°C / RT20°C)
Heating Capacity (W)		610	1100	1400
CO_2 Inlet pressure range (bar)		0.6~0.7	0.7~1.0	0.7~1.0
Number of shelves (included / max.)		3/8	3/15	3/15
Chamber dimension (WxDxH) mm		590x530x900	700x650x1430	700x800x1530
Overall dimension (WxDxH) mm		630x760x1125	820x860x1740	820x930x1840
Weight (kg)		119	235	296

Standard package includes: incubator, shelves, water tray.

Tri-Gas Incubator (CO_2 / O_2 / N_2)

The Tri-Gas incubator is ideal for the experiments of the cultivation of animal cells, sperm/ovum, anaerobic cells, all sorts of microbe cells, hatching/germinating and special tissues.

Options

Customize your incubator with these options.

Access port

25mm Access Port is available at left side. (Upon ordering and additional charge).

UV sterilization

4W UV is placed on the chamber ceiling and beside the circulation fan. The UV light cannot reach the sample and sterilization is operated during culturing.

Hot air sterilization

Maximum 125°C Dry Hot Air in BCI-40T, BCI-180T No need to remove IR CO_2 sensor.

Monitoring System

Connection port has been designed to observe the status of equipments in real time even in the far distance.

Lower gas consumption.
Lower heat loss.

Faster recovery easy classification for various samples.
5 Split Door for BCI-40T.
6 Split Door for BCI-180T.

Features

Fast heat-up, fast-recovery, reliable control.

6 Sides Direct Heating System

The electric heating wire is covered on all sides of the chamber which makes good uniformity and provides fast heat-up & temperature recovery.
3 parts of heating section are controlled and calibrated individually by 3 individual temperature sensors.

Dry Wall and Air Jacket

Warm air from heating wire is preserved in space between the chamber and the insulation layer. It helps temperature recover faster and minimize heat loss.
Drywall withinsulation requires no regular maintenance.

DUAL BEAM IR CO_2 Sensor

Fast & precise detection for CO_2 gas regardless of temperature and humidity.

Natural Humidification using Water Tray

The heater on bottom warms the water in tray and it makes humidification. The circulation fan delivers the moisture formed from the water to the entire chamber.

No Condensation

Heating by front door heater & frame heater prevents condensation in the chamber and on the glass door.

Microprocessor PID Control

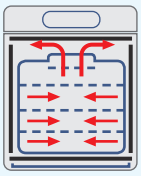
Intelligence Control for CO_2 density, Temperature, Alarm, Automatic. Decontamination (Optional).

HEPA filtration

A clean gas environment inside the incubator is guaranteed by integrated HEPA filtration.

Gentle Air and Moisture Convection

Gentle air and moisture convection air and moisture in the chamber are distributed naturally by 6 side heating and the air circulation fan.



Over Heating Limit

Heating is automatically cut by safety device when temperature control failed or there is excessive heating over set point.

Easy to clean

Rounded corner allows easy cleaning. The entire chamber is made of stainless steel (SUS304).

Perforated Shelves

Perforated shelves are good for natural air flows and are made of stainless steel which are resistant against rust and contamination.

Alarm System

Buzzer to alarm low or high deviation of CO2, Temperature.

Specifications

Model		BCI-40T	BCI-180T	BCI-260T	BCI-850T
Volume [L]		40	180	260	850
Temperature	Range (℃)	Ambient+5~60	Ambient+5~60	Ambient+5~60	Ambient+5~60
	Accuracy(℃)	±0.1 (37℃)	±0.1 (37℃)	±0.1 (37℃)	±0.1 (37℃)
	Resolution (℃)	0.1	0.1	0.1	0.1
	Control	Digital PID	Digital PID	Digital PID	Digital PID
CO_2	Range	0.1% ~ 20%	0.1% ~ 20%	0.1% ~ 20%	0.1% ~ 20%
	Accuracy	±0.1% (5% / 37℃)	±0.1% (5% / 37℃)	±0.1% (5% / 37℃)	±0.1% (5% / 37℃)
	Resolution	0.1%	0.1%	0.1%	0.1%
	Sensor	IR CO_2 Sensor	IR CO_2 Sensor	IR CO_2 Sensor	IR CO_2 Sensor
	Control	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Inlet pressure range (bar)	0.5~0.6	0.6~0.7	0.6~0.7	0.9~1.0
O_2	Range	0.6~85%	0.6~85%	0.6~85%	0.6~85%
	Sensor	Zirconium dioxide sensor	Zirconium dioxide sensor	Zirconium dioxide sensor	Zirconium dioxide sensor
Display		TFT	TFT	TFT	TFT
Operating panel		Individual 2-Channel Touch Button			
Jacket type		Dry Wall Type (six-side gradient heating design)			
Chamber material		Stainless Steel (304)			
IP code		IP20			
Number of shelves (included / max.)		2/4	3/8	3/8	3/15
Chamber dimension (mm)		320x350x375	528x473x710	530x590x900	700x800x1530
Overall dimension (mm)		420x460x570	560x620x945	630x680x1125	820x930x1840
Weight (kg)		35	78	115	266
Order No. for standard version		B6X21040	B6X21180	B6X21260	B6X21850
Order No. for dry heat sterilization version		B6X22040	B6X22180	B6X22260	B6X22850

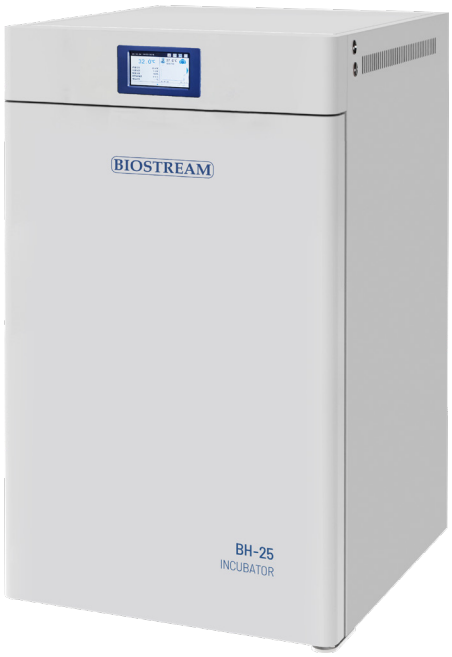
Standard package includes: incubator, shelves, water tray.

Constant Temperature Incubator

Versatile air-jacketed incubators.Specially designed for uniform temperature distribution and minimal sample contamination caused by external air intrusion.

Features

- Applicable in life science, pharmacy, medical science, chemistry, biology, and related fields for storage of samples which need constant temperature and incubation
- Digital temperature display and control
- PID controller for temperature stability and safety protection
- Very good heating characteristics
- Ecologically friendly
- Easy to clean
- Timer function
- Can be opened anytime when necessary
- When the temperature exceeds set levels and reaches the set safety value, an alarm activates, and the incubation process stops
- The material of the observation window is tempered glass, which has good safety and sealing characteristics
- The magnetic door and high-quality gasket can absorb external shocks and comprise excellent sealing characteristics
- Easy-to-clean stainless steel shelves with good air permeability and adjustable height
- Upon opening the incubator, the fan and heating device stop operation
- Alarm starts for sample protection when the door is open for more than 60 seconds



Specifications

Model	BH-05	BH-10	BH-15	BH-25
Order No.	B6X31050	B6X31100	B6X31150	B6X31250
Volume [L]	50	100	150	260
Temperature Range (℃)	RT + 5~65	RT + 5~65	RT + 5~65	RT + 5~65
Temperature uniformity of working area (℃)	<±0.2 (37℃ / RT20℃)	<±0.2 (37℃ / RT20℃)	<±0.2 (37℃ / RT20℃)	<±0.2 (37℃ / RT20℃)
Temperature Stability(℃)	±0.1 (37℃)	±0.1 (37℃)	±0.1 (37℃)	±0.1 (37℃)
Temperature Controller	Digital Display with PID automatic regulation, Button Control			
Timer	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min	1 min ~ 99 hr 59 min
Safety	Independent safety temperature protection, Open door alarm function			
Heating Capacity (W)	340	340	340	610
Shelves (included / max.)	2/3	2/4	2/8	3/8
Inner Dimensions (WxDxH)mm	345 x 368 x 375	480 x 480 x 495	500 x 480 x 620	530 x 590 x 900
Outer Dimensions (WxDxH) mm	440 x 480 x 610	560 x 560 x 760	560 x 580 x 880	630 x 680 x 1125
IP code	IP20	IP20	IP20	IP20
Weight (kg)	35	50	65	115
Power supply	AC 220~240 V,50/60 Hz	AC 220~240 V,50/60 Hz	AC 220~240 V,50/60 Hz	AC 220~240 V,50/60 Hz
Number of internal power outlets	-	-	-	-

Standard package includes: incubator, shelves.

Large-scale Constant Temperature Incubator

Large-scale constant temperature incubators are specially designed for Roller Rack. The specially designed heating system and high-efficiency circulation fan work in concert to ensure a uniform cultivation environment, delivering excellent temperature uniformity throughout the chamber.

Model	BH-1200
Order No.	B6X31122
Chamber volume (L)	1204
Accuracy(°C)	±0.5 ~0.7 (37°C / RT20°C)
Temperature Stability (°C)	±0.1 (37°C)
Materials	Interior: Stainless steel ; Shelves: Polished stainless steel ; Inner glass door: 5 mm high temperature resistant safety glass Casing: Steel plate, Spray coating
Heating Capacity(W)	1600
Shelves (included / max.)	0/15

Peltier-cooled Incubator

This series of incubators combines heating and peltier cooling systems, a perfect development from environmentally friendly and energy efficient heating and cooling technologies that facilitate excellent control accuracy and minimal fluctuations.

Features

- Applicable in life science, pharmacy, medical science, chemistry, biology, and related fields for storage of samples which need a constant temperature and for incubation.
- Heating function start and duration can be pre-set.
- There are four temperature programs available for editing, and each program can be edited in 5 steps.
- Four temperature can be preset for quick changeover.
- Temperature measure unit can be set as either ℃ or ^{0}F.
- When the temperature exceeds set levels and reaches the set safety value, an alarm activates, power is cut off, and the incubation process stops.
- With tempered glass window, the examination of samples is easy and convenient, avoiding unnecessary disruptions of the incubation process.
- The stainless steel shelves have a good air permeability, are easy to clean and can be adjusted in height.
- When temperature deviation occurs, the BIAS function sets in, which makes operation convenient.
- In the case of an unexpected power breakdown the incubator offers two working options: automatic re-operation and automatic stop.
- When opening the incubator, the fan and heating device stop operation. After one minute without closing the door an alarm sets in.
- Incubators use heat transfer method for circulation. In a separated room outside the work space it uses heat exchange, In the working space it uses natural convection and forced circulation.
- The circulation method will not induce air pollution and can guarantee exact temperature distribution.

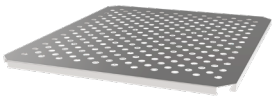
Specifications

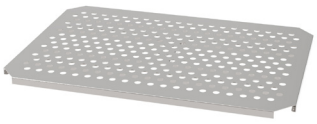
Model	BH-01P	BH-05P	BH-10P	BH-15P
Order No.	B6053015	B6053050	B6053100	B6053150
Temperature Control Method	Forced circulation			
Volume (L)	15	50	100	150
Temperature Range (℃)	+4 ~ 60 (at 20℃ RT)	+4 ~ 60 (at 20℃ RT)	+10~ 60 (at 20℃ RT)	+10~ 60 (at 20℃ RT)
Temperature Stability (℃)	±0.1	±0.1	±0.1	±0.1
Temperature Controller	Touch Control; Digital Display with PID automatic regulation			
Timer	1 min ~ 999hr 59 min / continuous			
Heating Capacity (W)	150	300	450	450
Max. Cooling Capacity (W)	350	350	350	350
Shelves (included / max.)	2/4	2/6	2/8	2/10
Inner Dimensions (W×D×H)mm	315 x 200 x 240	335 x 370 x 380	480 x 478.5 x 500	480 x 500 x 625
Outer Dimensions (W×D×H) mm	400x 409.5 x 445	440 x 550 x 618	620 x 668.5 x 806	620 x 690 x 930
IP code	IP20	IP20	IP20	IP20
Weight(kg)	24	35	65	80
Power supply	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz	AC 220 ~ 240V, 50/60 Hz

Standard package includes: incubator, shelves.

Incubator Accessories

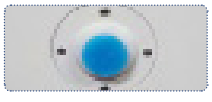
Order No.	Item	Description	Suitable for
Incubator shelf for holding cultures in the chamber			
B6030501	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 15kg	BH-05
B6031001	Perforated Shelf kit		BH-10
B6031501	Perforated Shelf kit		BH-15
B6032501	Perforated Shelf kit		BH-25
B6053016	Perforated Shelf kit		BH-01P
B6053501	Perforated Shelf kit		BH-05P
B6053101	Perforated Shelf kit		BH-10P
B6053151	Perforated Shelf kit		BH-15P
B6031221	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 25kg	BH-1200
B6031222	Perforated Shelf kit	Perforated shelf to improve uniformity, Stainless steel material can effectively resist corrosion and pollution, load 50kg	BH-1200
Roller base:Placed at the bottom of the incubator for support and easy movement			
B6010402	Roller base	To move incubator easily	BH-05
B6031002	Roller base	To move incubator easily	BH-10
B6031502	Roller base	To move incubator easily	BH-15
Stacking kit:to stack and fix the incubator			
B6031003	Stacking kit	To stack and fix the incubator	BH-10
B6031503	Stacking kit	To stack and fix the incubator	BH-15
B6011806	UV lamp	A 4W UV lamp is placed at the top of the chamber, next to the circulating fan. UV rays do not radiate the sample and can be sterilized during culture.	All series incubator (Except dry heat sterilization incubators)
B6011816	Holes for auxiliary monitoring	Diameter of 30mm (40mm customizable), for sampling, experimental verification and penetration of additional equipment power or signal cables in the incubator	All series incubator
B6011809	Monitoring system	PC software, using Internet network connection, can monitor the working status of the incubator in real time remotely	All series incubator
B6011809-1	Connecting wire	With anti-shedding interface for PC to the incubator, unit/m	All series incubator
B6051502	Power socket in chamber	Three-jack socket, 220V, for power supply inside the chamber, not exceed 1000W	All series incubator
B6051503	LED lamp	Installed on the top of the chamber, with an independent lighting switch	All series incubator (Except dry heat sterilization incubators)





Roller base

Stacking kit



Cell Culture Roller Rack

The Biostream cell culture roller rack, available in the Bio Roller Mini and Bio Roller Mid models, offers high flexibility in its operation, both inside an incubator and on a work table. A remote control box can be conveniently attached to the incubator's surface, and the flat cable does not require special installation measures like an access port. The Bio Roller Mini can accommodate up to four 2000ml bottles, while the Bio Roller Mid can handle six 2000ml bottles at a time. With a speed range from 0.2rpm to 8.1 rpm, these racks are designed to optimize the performance of adherent cell cultures.

Features

- Steel reinforced polyurethane timing belts .
- Brushless DC Motor.
- Powder coated aluminum for durability and cleanliness.
- Non-slip rubber material for the best performance of rolling.
- Designed for no idle roller by drive-belt.

Specifications

Model	Bio Roller Mini	Bio Roller Mid
rpm Range (rpm)	0.2~8.1	0.2~8.1
Accuracy (rpm)	1	1
Increment (rpm)	0.1	0.1
Control	Microprocessor digital PID	Microprocessor digital PID
Time Range	Continuous or up to 999h 59min	Continuous or up to 999h 59min
Accuracy	±1%	±1%
Display	LED Display	LED Display
Motor type	Brushless DC motor	Brushless DC motor
Bottle diameter [mm]	110 to 120 4ea	110 to 120 6ea
Roller deck dimension (WxDxH)mm	362×299×212	362×299×412
Overall dimension (WxDxH)mm	375×370×345	375×370×545
Bottle Positions	4	6
Decks	2	3
Power	220V, 50/60Hz	220V, 50/60Hz
Weight (kg)	12.5	13.5
Order No.	B6110100	B6110200

*110V product available upon request.

Can contain four Dia.110-120mm roller bottles.

Outside control

Controller can adjust speed without opening the door.

Cell Culture Roller Rack

Oversized CO_2 incubator optional

Bio Roller Pro

> Smooth ramping digitally controlled rotation accurate to 0.01 rpm.
> Maintenance-free precision brushless motor.
> Bright TFT display for easy operation.
> Can be directly connected to the printer.

Specifications

Model	Bio Roller Pro
Display	LCD
Capacity	5~55 Positions
Bottle Speed (110mm Bottle) (rpm)	0.08~2.5
Diameter of roller bottles (mm)	108~121
Length of roller bottles (mm)	Max. 550
Accuracy (rpm)	0.01
Drive	Belt Driven
Motor Type	Brushless DC
Rotation Direction	Clockwise and Counter-Clockwise
Options	Temperature Alarm and Battery Backup
Remote Communication	RS232
Humidity	80% up to 37°C
Operating Temperature (°C)	10 to 40
Electrical	100-240VAC, 50/60 Hz

Standard package includes: Roller, Belt break alarm.

Bio Roller Elite

> Robust touch screen interface that is easy to view from a distance.
> Readily recognizable icons for intuitive navigation.
> Digitally controlled maintenance-free motor accurate to 0.01 rpm.
> RS-422 Modbus RTU, RS-485 Modbus RTU, Modbus TCP and TCP/IP.
> Can be directly connected to the printer.

Specifications

Model	Bio Roller Elite
Display	SIMATIC HMI Touch Screen
Capacity	8~88 Positions 5~55 Positions
Bottle Speed (110mm Bottle) (rpm)	0.08~2.5
Diameter of roller bottles (mm)	108~121
Length of roller bottles (mm)	Max. 550
Accuracy (rpm)	0.01
Drive	Belt Driven
Motor Type	Brushless DC
Rotation Direction	Clockwise and Counter-Clockwise
Options	Temperature Alarm and Battery Backup
Remote Communication	RS-422 Modbus RTU, RS-485 Modbus RTU, Modbus TCP and TCP/IP
Humidity	80% up to 37°C
Operating Temperature (°C)	10 to 40
Electrical	100-240VAC,50/60 Hz

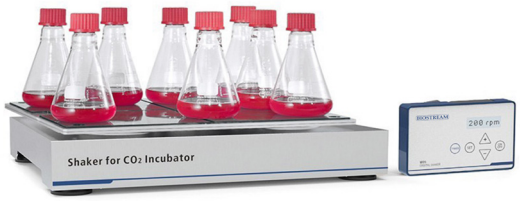
Standard package includes: Roller, Belt break alarm.

Ordering Information

Order No.	Position	Deck distance	Decks	Bidth	Depth	Height	Bottle Positions	Rack material
Bio Roller Pro		cm		cm	cm	cm		
BPBBRA501	5	18	1	79	63	35	5	AL
BPBBRA503	5	18	3	79	63	71	15	AL
BPBBRA505	5	18	5	79	63	107	25	AL
BPBBRA508	5	18	8	79	63	161	40	AL
BPBBRA509	5	18	9	79	63	179	45	AL
BPBNRS501	5	15	1	79	63	35	5	SS304
BPBNRS503	5	15	3	79	63	65	15	SS304
BPBNRS505	5	15	5	79	63	95	25	SS304
BPBNRS508	5	15	8	79	63	140	40	SS304
BPBNRS509	5	15	9	79	63	155	45	SS304
BPBNRS510	5	15	10	79	63	170	50	SS304
BPBNRS511	5	15	11	79	63	185	55	SS304
Bio Roller Elite								
BEBNRS501	5	15	1	79	63	5	5	SS304
BEBNRS503	5	15	3	79	63	65	15	SS304
BEBNRS505	5	15	5	79	63	95	25	SS304
BEBNRS508	5	15	8	79	63	140	40	SS304
BEBNRS509	5	15	9	79	63	155	45	SS304
BEBNRS510	5	15	10	79	63	170	50	SS304
BEBNRS511	5	15	11	79	63	185	55	SS304
BEBNRS809	8	15	9	120	63	155	72	SS304
BEBNRS810	8	15	10	120	63	170	80	SS304
BEBNRS811	8	15	11	120	63	185	88	SS304

Shaker for CO_2 Incubator

This is Compact Shaker with benefits such as small foot print and easy to move. The non-belt magnetic drive provides low noise, low vibration. Despite compact size, shaking is powerful and the workplace is large to load various vessels.



Features

Gentle magnetic drive

The non-belt magnetic drive design affows for high performance of water resistance. This most gentle drive unit has exceptionally smooth start-up and braking behavior, and is specifically good for cell cultures.

Made of stainless steel

The entire housing of shaker is made of stainless steel (SUS304), meeting the demand of GMP's cleaning requirements. It is easy for the removal of any unwanted liquids and can be cleaned with chemicals.

No gas leaks

The thin Wire Cable connection between the shaker and the control box can pass through the sealing part of the inner glass door although no access port is in your incubator.

Placing remote controller with magnet

Depending on the material type of the incubator or the situation of the lab, placing remote controller is available with integrated magnets.

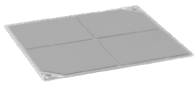
Specification

Model	Bio Shaker
Motion	Orbital
Control	Microprocessor Digital
Motor	Plate BLDC motor
Drive System	Magnetic Drive
Display	LED display
Speed Range(rpm)	20 ~ 200
Accuracy(rpm)	±1
Shaking Throw(mm)	25 or 50mm
Time Range	Continuous or up to 99 hours 59min
Time Increment	1min
Shaker size(W xDx H) mm	450x 380x 76
Weight(Kg)	13.5
Platform Size(W x D)mm	400x330
IP code	IP54
Control box Size(W x Lx H)mm	155 x 95 x 25
Power	100/230 V (± 10 %) 50/60HZ
Load Capacity	100ml x 25 250ml x 14 500ml x 9 1000ml x 5
Order No.	B6100200

Standard package includes only shaker, tray need to be ordered separately.

Accessories

Order No.	Name
B6100201	Sticky Plate
B6100202	Universal Tray



Sticky Plate

Universal Tray