

Pre-Processing of Bio-Samples

Homogenizer

Overview:



Typical Samples:

- * Human, animal, plant cells
- * Soil and sediments
- * Micro-organisms
- * Swabs and feces
- * Drugs, polymers, lotions, etc.

Features:

- * "3D Rotating High Speed Motion" for quick disruption of those fibrous tissues and resistant cells.
- * 50 Programmable memory settings and user optional condition settings.
- * A wide range of rotation speed settings from 4.0m/s to 7.0m/s, increment 0.05m/s.
- * Brushless motor realizing no brush particle generation and no brush replacement.
- * Easy to remove sample tube holder and easy to fix sample tubes with the turn of the central knob.
- * Easy to monitor the disruption process through the clear lid.
- * Simultaneously homogenize either 24*2ml / 1.5ml / 0.5ml or 12*5ml tubes.
- * Disposable tubes ensure no threat of cross-contamination.
- * Most samples can be processed in 35 seconds or less.

Technical Parameters:

Model	HG-24
Speed Range	4.0m/s~7.0m/s (in steps of 0.05 m/s)
Cycle Duration	1~90s (in step of 1s)
Pause Time	0~2 minutes
Acceleration	≤2s
Deceleration	≤2s
Programmable	50 Saved Programs
Number of Cycles	10
Display	LED
Number of Samples	1~24 samples (24*2ml/1.5ml/0.5ml) or 1~12 samples (5ml tubes)
Running Noise	<68dB
Power Supply	AC110/220V±10%, 50/60Hz
External Size(L*D*H)	280*360*385mm
Package Size(L*D*H)	620*520*630mm
Net/Gross Weight	25/37kg

Semi Automated Plate Sealer

Features:

- * Format different micro well plates and heat seals
- * Adjustable Sealing Temperature: 80~200°C
- * OLED display screen, high light and no visual angle limit
- * Precise temperature, timing and pressure for consistent sealing
- * Automatic counting function
- * Compact footprint: only 7.0 inches (17.8cm) wide

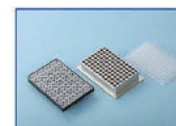
Control:

The PS-2 Semi Automated Plate Sealer allows optimal settings for all types of plates and sealing material. Sealing time and temperature can be set using the control knob.



- * Automatic Counting Function
- * Sealing Time in 0.1 sec increments
- * Sealing Temperature in 1.0°C increments

Accessories:



96-well PCR plate adapter



Standard plate adapter



Weighted sealing flake

Technical Parameters:

Model	PS-2
Adjustable Sealing Temperature	80~200°C
Temperature Accurate	1.0°C
Seal Time	0.5s~10s, increased by 0.1 sec.
Seals Plate Heights	9 to 48mm high
Compatible Plate Materials	PP (Polypropylene); PS (Polystyrene); PE (Polyethylene)
Compatible Plate Types	Standard Assay Plates, Deep-Well Plates, PCR Plates including skirted
Consumption	300W
Power Supply	AC110/220V±10%, 50/60Hz
External Size(L*D*H)	370*178*330mm
Package Size(L*D*H)	530*320*540mm
Net/Gross Weight	9.6/12kg

Denaturation & Hybridization System



- ① Touch screen, easy to read and use.
- ② 12 slides with superior temperature uniformity.
- ③ Heating lid and lid seals tightly will maintain uniform temperature and humidity.

Features:

* User Programmable Settings

- 1) Touch screen allows for easy to read and easy programming.
- 2) 99 user programmable settings.
- 3) Four operation modes: denaturation /hybridization, hybridization, custom, In-situ PCR
- 4) Can be used as a fixed temperature slide warmer.

* Easy to use

- 1) Eliminates manual steps and reduces hands-on time during FISH procedures.
- 2) Slides do not need to be fully loaded to maintain temperature accuracy.
- 3) Slide guide keeps slides in place and allows for one hand removal.

* Accurate temperature control

- 1) Rapid temperature ramp-up and accuracy of $\pm 1^{\circ}\text{C}$.
- 2) Superior temperature uniformity across all slide positions.
- 3) Programmable system, it can be runned In-situ PCR experiments.

* Ideal for humidity control

Perfect lid seals tightly will maintain uniform temperature and ensure humidity across all slide positions.



Technical Parameters:

Model	HS-500
Temperature Range	RT+5°C~100°C
Capacity	12 Slides
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Temperature Uniformity	$\pm 1^{\circ}\text{C}$
Timing Range	1min~99h59min
Heating Time (37°C~95°C)	$\leq 3\text{min}$
Cooling Time (95°C~45°C)	$\leq 7\text{min}$
Temperature Range	30°C~100°C
Power Supply	AC110/220V $\pm 10\%$, 50/60Hz
External Size(L*W*H)	420*225*143mm
Package size(L*W*H)	550*360*290mm
Net Weight	5.8kg
Gross Weight	7.2kg

Thermo Shaker Incubator



TSI-100



MS-4

Technical Parameters:

Model	TSI-100
Temperature Control Range	0°C~100°C
Timing Range	1min~99h59min
Mixing Speed	200rpm~1500rpm
Mixing Orbit	2mm
Temperature Control Accuracy	$< \pm 0.5^{\circ}\text{C}$
Display Accuracy	0.1°C
Heating Time	$\leq 20\text{min}$ (20°C~100°C)
Cooling Time	$\leq 25\text{min}$ (RT~20°C); $\leq 15\text{min}$ (100°C~20°C)
Cooling Depth	1) The block temperature can be descended to 0°C if the RT is 20°C 2) The block temperature can be descended to 4°C if the RT is 25°C 3) The block temperature can be descended to 10°C if the RT is 30°C
Cooling & Heating Parts	TE Module
Power Supply	AC110/220V $\pm 10\%$, 50/60Hz
External Size(L*W*H)	300*220*175mm
Package Size(L*W*H)	470*370*330mm
Net weight	8.5kg
Gross weight	11.5kg

Technical Parameters:

Model	MS-4
Speed	300~1400rpm/min (Standard), 300~1000rpm/min (Deepwell)
Orbit	3mm
Timer	59h59min
Consumption	40W
Power Supply	AC110/220V $\pm 10\%$, 50/60Hz
External Size(L*D*H)	280*270*110mm
Package Size(L*D*H)	470*370*330mm
Net Weight	7kg
Gross Weight	9kg

Dry Bath Incubator

Features:

- * Exceptional temperature uniformity and accuracy -- due to advanced temperature control combined with high quality, precision engineered block providing excellent thermal contact.
- * Wide range of interchangeable aluminium blocks.
- * Heat to 105°C, optional external temperature probe.
- * Blocks optional available as accessories for all applications - tubes, vials and microplates.
- * Block extraction tool is supplied, allowing blocks to be removed easily.

1. Specification for DBI-I Dry Bath Incubator:

- * Temp. control range: RT+5°C~105°C
- * Stability at 100°C: ±0.4°C
- * Uniformity: within the block at 37°C: ±0.2°C
- * Heating time (25°C to 100°C): ≤15min
- * Display accuracy/Display: 0.1°C/LED
- * Timing range: 1~99h59min * Block Quantity: 1
- * External size: 250*190*130mm
- * Package size: 390*310*250mm
- * Net weight: 2.5kg; Gross weight: 4.1kg



DBI-I

2. Specification for DBI-II Dry Bath Incubator:

- * Temp. control range: RT+5°C~105°C
- * Stability at 100°C: ±0.4°C
- * Uniformity: within the block at 37°C: ±0.2°C
Across similar blocks at 37°C: ±0.3°C
- * Heating time (25°C to 100°C): ≤15min
- * Display accuracy/Display: 0.1°C/LED
- * Timing range: 1min ~ 99h59min; * Block Quantity: 2
- * External size: 365*210*150mm
- * Package size: 490*330*280mm
- * Net weight: 4.5kg; Gross weight: 6.1kg



DBI-II

3. Specification for Dry Bath Incubator DBI-III:

- * Temp. control range: RT+5°C~100°C
- * Time required for temp. to increase from 20°C to 100°C: ≤15 min
- * Temp. control discrepancy: ≤±0.5°C; * Display discrepancy: ±0.1°C
- * Homogeneity of block temperature: ≤± 0.5°C;
- * Max. heating power: 150W; * Max. temp.: 105°C
- * Time Range: 1~99h59min
- * Package Size: 570*380*350mm
- * Net Weight: 7kg; Gross Weight: 9kg



DBI-III

4. Specification for Dry Bath Incubator DBI-IV:

- * Temp. control range: -10°C~100°C
- * Timing Range: 1~99h59min
- * Temp. control accuracy: ≤ ±0.3°C
- * Display accuracy: 0.1°C
- * Heating time: ≤15min (from 20°C to 100°C)
- * Cooling time:
≤ 20min (from 20°C to -5°C) If the room temperature is lower 30°C
≤ 15min (from 20°C to -10°C) If the room temperature is lower 25°C
- * Heating and cooling parts: TE Module
- * External size: 300*220*170mm
- * Package size: 470*380*330mm
- * Net weight: 5kg; Gross weight: 8kg



DBI-IV

5. Specification for DBI-V Dry Bath Incubator:

- * Temp. control range: RT+5°C~80°C
- * Timing Range: 1~999min or 1~999s
- * Temp. control accuracy: ≤±0.3°C
- * Display accuracy: 0.1°C
- * Heating time: ≤ 10min (from 20°C to 80°C)
- * Heating parts: Heater
- * Package size: 600*530*360mm
- * Net weight: 16kg; Gross weight: 18kg



DBI-V

6. Specification for DBI-VI Dry Bath Incubator:

- * Temp. control range: RT+5°C~150°C
- * Time required for temp. to increase from 40°C to 150°C: ≤30min
- * Temp. control discrepancy: ≤ ±0.5°C
- * Display discrepancy: ±0.1°C
- * Homogeneity of Bblock temp.: ≤ ±0.5°C
- * Max. heating power: 200W; * Time range: 1~99h59min
- * External size: 280*240*110mm
- * Package size: 470*370*330mm
- * Net weight: 4.2kg; Gross weight: 7kg



DBI-VI



Gel Card Incubator

Application:

Gel card incubator is matched with our gel cards centrifuge to use and holds 2 independent incubation zones with a capacity for 12 gel cards. It can be suitable for many types of gel cards from different manufacturers.



Features:

- * Keep 24-Gel Cards in temperature of 37 degree.
- * LED display, time can be set.
- * Audible programmable alarm to notify end of incubation period.
- * Microprocessor PID temperature control, accurate and stable.

Technical Parameters:

Model	BK-GC124
Capacity	24 cards
Temperature	37°C
Temperature Accuracy	<0.5°C
Temperature Uniformity	±0.5°C
Time Range	0~99min59s
Consumption	250W
Power Supply	AC110/220V±10%, 50/60Hz
External Size(W*D*H)mm	280*390*140
Package Size(W*D*H)mm	445*335*190
Net/Gross Weight(kg)	6.2 / 8

Gel Card Centrifuge

Application:

Gel card centrifuge is used in blood serology, blood type routine test, erythrocyte washing, microcolumn agglutination, immunology and other tests.



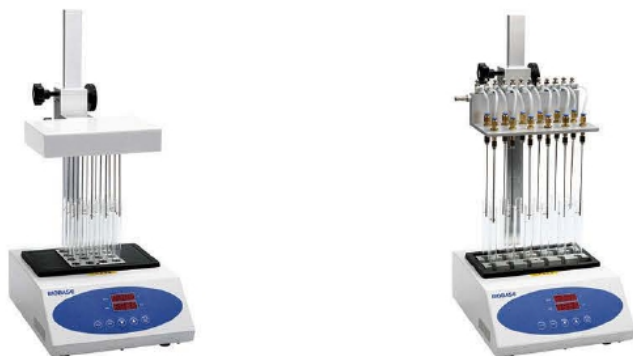
Features:

- * DC Brushless motor, low noise.
- * Microprocessor control system & soft touch control panel.
- * LCD display: RCF, Speed, Time.
- * Electric lid interlock, over speed and imbalance protection.
- * 20 programs for standard and programmability are available.

Technical Parameters:

Model	BKC-GC12	BKC-GC24
Max. Speed	3000rpm	
Max. RCF	830xg	1080xg
Rotor	12 cards	24 cards
Speed Precision	±20rpm	
Time Range	0~99min	
Noise	≤55dB	
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)mm	483*320*265	528*370*280
Package Size(W*D*H)mm	560*380*330	610*435*340
Gross Weight(kg)	24	30

Sample Concentration(Nitrogen Evaporator)



SC-I

SC-II

Features:

- * High precision and wide range of temperature control
- * Blowing a large number of samples at one time
- * Blowing each sample independently (Only for SC-II)
- * Amount of airflow can be adjusted
- * Easy operation; safe and reliable to use

Technical Parameters:

Model	SC-I	SC-II
Temp. Range	RT+5~150℃	
Low Nitrogen Consumption	330ml/min/sample	
Time Required from 40℃ to 150℃	≤30 minutes	
Needles Length	150mm	
Temp. Control Discrepancy	±0.1℃	
Consumption	200W	400W
Power Supply	AC110/220V±10%, 50/60Hz	
Package Size(L*D*H)	490*380*410mm	470*370*330mm
Net Weight	7kg	8kg
Gross Weight	11kg	10kg

Sterile Homogenizer (Stomacher Blender)

Application:

Sterile homogenizer is also called flapping homogenizer or stomacher blender, widely used in homogenization treatment for animal tissue, biological samples, etc.

It plays an important part in food, medicine, cosmetics, clinical, molecular, toxin and bacteria test, especially in microorganism testing sample preparation.

Features:

- * LCD display, microcomputer control.
- * Intelligent program control, able to set the flapping time and speed.
- * Adjustable flapping spacing, easy to process samples with different amount.
- * Disposable sterile bag guarantees hygiene and safety.
- * Toughened glass window, easy to observe.
- * With anti-pinch function and pause function.



Technical Parameters:

Model	BK-SHG04	BK-SHG05
Flapping Time	0.1~99min 59s or continuous operation	
Flapping Speed	3~12 times/s	
Flapping Spacing	0~50mm adjustable	
Effective Capacity	3~400ml	
Program Setting and Storage	3 groups	12 groups
Temp Control Range	/	RT~60℃
Disinfection Function	/	UV lamp disinfection
Sterile Bag	17*30cm, standard 100 pcs	
Start Mode	Soft start	
Consumption	200W	500W
Power Supply	AC110/220V±10%, 50/60Hz	
External Size(W*D*H)	470*250*330mm	
Package Size(W*D*H)	570*340*460mm	
Net Weight	19kg	
Gross Weight	22kg	

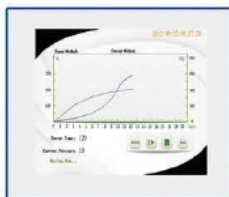
Digester

Microwave Digester



Website: www.biobase.cc / www.meihuatrade.com

Parts:



Description:

BIOBASE Microwave Digester System adopts the international advanced double magnetron frequency microwave heating system and realizes the high-power microwave balanced magnetic field safety heating. It is widely used in food, textile, plastic, geological, metallurgical, coal, biological medicine, petroleum chemical industry, environmental monitoring, sewage treatment, battery manufacturing, cosmetics, etc.

Features:

- * Double magnetron variable frequency control system.
- * High accuracy pressure sensor.
- * 7" LCD color touch screen display the temperature and pressure curve in real time.
- * Built-in prestored methods and other programmable methods.
- * Optical fiber temperature control system.
- * Multiple safety protection function.

- * It has more than ten safety protection measures to ensure experiment safety, including temperature control system, pressure control system, explosion-proof security doors, thickened cavity with multi-layer TEFLON coating, High-power exhaust system, program with suspend or start at any time. Ladder-style control temperature system, the material is TFM for the vessel and aerospace composite material for the vessel cover, the vessel cap with PFA and the pressure shrapnel use PEEK.

- * Video monitoring function for the BMD-1 model.

Technical Parameters:

Model	BMD-1	BMD-2
Cavity	48L Resonant Cavity	
Teflon Coating	10 layers	8 layers
Digestion Method	50 preinstalled methods, programmable 100 methods	20 preinstalled methods, programmable 50 methods
Max. Temp.	305°C	
Temp. Accuracy	±1°C	
Pressure Accuracy	±0.01Mpa	
Temperature Sensor	Optical Fiber Sensor	
Vessel Pressure Capacity	80Mpa	75Mpa
Vessel Quantity	12 Vessels	
Vessel Volume	100ml	
Microwave Cavity Material	SS316 with 10 layers Telfon	SS316 with 8 layers Telfon
Cooling Method	Forced air cooling	
Interface	USB, RS232	/
Consumption	1600W	
Power Supply	AC220V±10%, 50Hz	
External Size(W*D*H)	520*593*660mm	
Package Size(W*D*H)	770*700*890mm	
Gross Weight	80kg	

Microwave Digester



BMD-E1



BMD-E2



BMD-E3

Features for BMD-E1:

- * All-steel industrial grade chamber, anti-corrosion and durable use.
- * Aerospace composite fiber outer vessel, anti-explosion and anti-corrosion.
- * Multi-functional safety bolt design, instead of safety membrane and other consumables.
- * Precise pressure controlled by piezoelectric crystal without cross-contamination problem.

Features for BMD-E2&BMD-E3:

- * Satisfy the requirements of different samples' digestion / extraction processing.
- * Standard 10 vessels high-throughput processing capacity.
- * Aerospace composite fiber outer vessel, anti-explosion and anti-corrosion.
- * With standard software, digestion methods can be stored.

Technical Parameters:

Model	BMD-E1	BMD-E2	BMD-E3
Temp. Range	0~300°C		
Temp. Accuracy	±1°C		
Pressure Range	0~10Mpa		
Pressure Accuracy	±0.01Mpa		
Temperature Sensor	High-precision platinum resistor temperature sensor		
Pressure Sensor	Piezoelectric crystal pressure sensor		
Display	LCD display		LCD color screen display
Vessel Quantity	Standard 6 Vessels	Standard 10 Vessels, Optional 12 Vessels	
Vessel Volume	100ml		
Vessel Material	Aerospace composite fiber for outer Vessel, Modified TFM material for inner Vessel		
Chamber Exhaust System	High-power anti-corrosion axial fan, exhaust speed: 3.1 m ³ /min		
Digestion Method	Internal software, up to 20 methods can be stored	Apply JSb software, up to 50 methods can be stored	Apply JSs software, unlimited amount methods can be stored
Consumption	1000W	1300W	
Power Supply	AC220V±10%, 50/60Hz	AC220V±10%, 50/60Hz	
External Size(W*D*H)	450*515*510mm	450*600*620mm	
Package Size(W*D*H)	Main Body: 650*600*590mm Accessory: 360*330*330mm	Main Body:760*680*790mm Accessory: 360*330*340mm	
Gross Weight	49kg	65kg	

Graphite Digester

Application:

BGD-420F Graphite Digester adopts globally advanced high-temperature infrared radiation heating technology and microprocessor control platform, accurate temperature control and quick temperature rise. It has two kinds of temperature rise mode: linear and curve temperature rise mode, and offers 20 digestion programs for control of temperature rise curves.

Features:

- * Anti-corrosion design: TEFLON coating on the surface, acid/alkali proof.
- * Heating uniform and fast: Adopt graphite block(antioxidant), heating faster and energy transfer faster, temperature between holes more uniform.
- * Safety protection: adopt unique air duct insulation tech, keep the temperature ultralow, protect operator



Technical Parameters:

Model	BGD-420F
Temperature Range	RT+5 - 450°C
Temperature Accuracy	±1°C(450°C)
Heating Method	Infrared heating and high-purity graphite conduction
Digestion Tube Capacity	300ml
Max. Capacity	20pcs/batch
Power Supply	AC 220 V±10%, 50HZ
Power Consumption	3600W
External Size(W*D*H)	474*509*636mm
Package Size(W*D*H)	540*570*830mm
Gross Weight	44kg

Optional Accessory: Gas Collection Hood

Features:

- * Using PFA sealing cap, longer life, dealing effect well
- * Clip-on sealing cap, easy for changing
- * Specialized water jet vacuum pump is adopted, don't need electric power
- * Drip tray design, reduce corrosion damage from acid solutions
- * Package Size: 530*350*290mm
- * Gross Weight: 8kg

