Company Profile

BIOER TECHNOLOGY CO., LTD is a professional enterprise, major in development, production, marketing and service for life science instruments and reagents. BIOER owns an advanced factory with the total occupation area of 26,000 M^2 and a floor area of 15,000 M^2. BIOER has high-class establishments such as 10,000 class super clean workshop, GMP reagent workshop, Laboratory Center, and so on. BIOER has around 100 staffs in total.

The predecessor of BIOER is R&D department of Ferrotec China. With the development of business, BIOER became an independent company departing from Ferrotec Group (China) in 2002. Ferrotec is one of the largest high-quality peltier suppliers in the world.

Based on its own unique manufacturing background subject to Peltier and skilled design capability, BIOER started from 1995 on the R&D of peltier applications. Bioer launched the first thermal cycler (PCR instrument) in China based on peltier technology in 1998. Fully met the international advanced level, it passed the identification of Zhejiang Drug Administration, and won the registration certificate of medical devices, and got the patent issued by the state. BIOER compiled the first enterprise standard subject to thermal cycler in China. Later, BIOER launched TC series PCR instruments, as well as Line-Gene Series Real-time PCR instruments. Among them, Line-Gene fluorescence quantitative PCR detection system is launched and won the national invention patent (Patent No.: ZL 01 1 16421.2) in 2002, which is the first real-time PCR instrument approved by China's State Food and Drug Administration. With its stable, reliable and sensitive performance, Line-Gene series instruments were recognized by the market soon, thus to guarantee a total order quantity nearly 1,000 units, and develop into the classic technology platform for Real-time PCR Series products of BIOER.

Besides PCR series products, BIOER launched related instruments such as cooling & heating series, nucleic acid purification system, standard PCR lab, shaking incubator, gel electrophoresis, water bath, and outer-cycler chiller subsequently. BIOER set a reagent manufacturing dept. in 2002, in order to set foot in R&D, production, sales and services for reagents in the field of life science research and application, and applied to create an integrated solutions-oriented enterprise for full range of research and application. In 2007, HBV PCR Fluorescence Quantitative Detection Kit which was developed and produced by BIOER, won the certificate issued by China's SFDA (No. : 3401340 [2007]).

With the development for 14 years, BIOER has become the largest PCR instruments and related equipments supplier in Asia area, and also become one of the world's largest supplier of PCR instruments. BIOER has established an extensive worldwide sales network. Its products are sold to the United States, Germany, Japan, South Korea, Southeast Asia, South America, the Middle East, and so on. BIOER has established comprehensive and good relations of cooperation with many PCR manufactories in Europe and America.

With the business philosophy as "Diligent, Determined, Pioneering, Excellent", BIOER make every effort to establish a sound quality management system, and has won Germany's TUV ISO9001 and ISO13485 certifications successively.

BIOER will continue our efforts, carry on the past and open a way for future, thus to make greater contribution in the life sciences field for human health, and take practical action to achieve the BIOER's brand concept: "BIOER SERVES LIFE!"

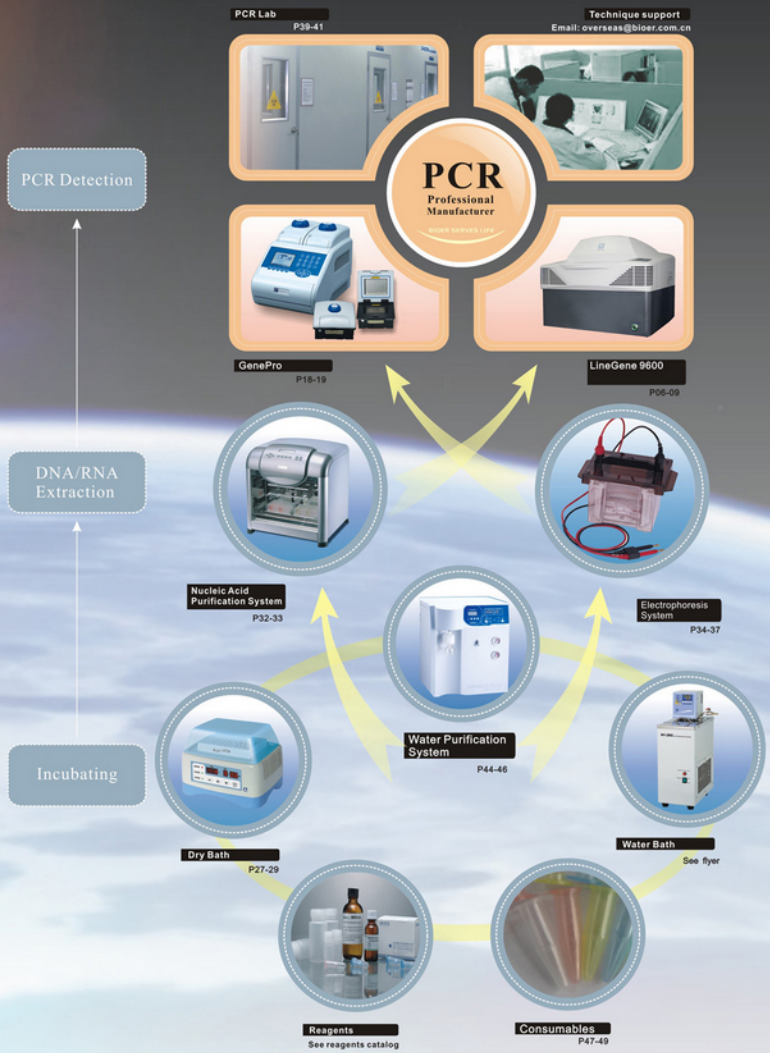

PCR Lab
P39-41
Technique support
Email: overseas@bioer.com.cn
PCR
Professional
Manufacturer
BIOER SERVES LIFE
PCR Detection
GenePro
P18-19
LineGene 9600
P06-09
DNA/RNA
Extraction
Nucleic Acid
Purification System
P32-33
Electrophoresis
System
P34-37
Water Purification
System
P44-46
Incubating
Dry Bath
P27-29
Water Bath
See flyer
Reagents
See reagents catalog
Consumables
P47-49

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Life Science Instruments

All Bioer products
are designed and manufactured
under ISO 9001:2000 & ISO 13485:2003.

Most Bioer equipments
conform to
the EMC and Low Voltage Directives. (See CE logo.)

Note: **Our company respects the IP in the world.**
In case that you found BIOER's product with any conflict to the local IP, please contact us in time. BIOER will check the local IP situation at the first time and adopt the corresponding methods to prevent infringement upon the IP rights.

Features:

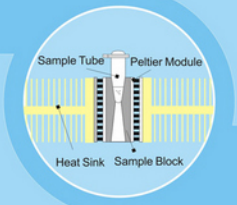
- **Peltier technology: Solid-state, thermoelectric heating and cooling unit for improved control and durability.**
- **Bottom detection system provides greater accuracy and sensitivity of measurements.**
- **High-powered photomultiplier provides sensitive detection.**
- **Long life LED excitation light source does not need maintenance or preheating.**
- **Hot lid feature allows oil-free operation.**
- **Advanced PID control ensures the accuracy of temperature control.**

System Operation & Processes



Peltier Technology

This specially designed **cooling and heating unit** closely fits both sides of the sample block to deliver rapid, controlled temperature changes and reduced vertical temperature gradients. This ensures accurate control of PCR reaction temperatures, using one of the several interchangeable sample blocks.



Features:

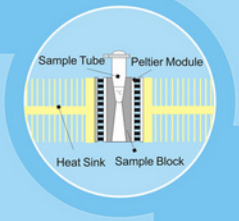
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System Operation & Processes



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Line-Gene 9600

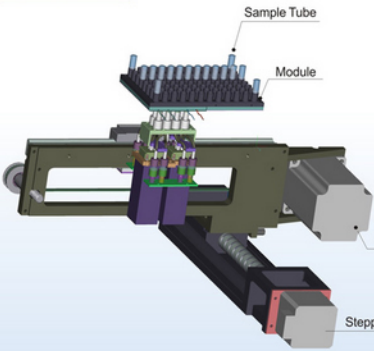


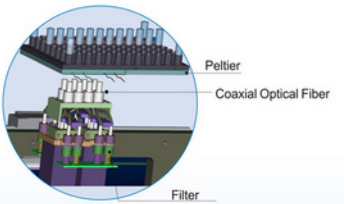
Line-Gene 9600 is the newest product of Bioer's Real-Time PCR detection system family. Based on Line-Gene family's tradition, Line-Gene 9600 Performs larger sample capacity, more detection channels and wider temperature range.

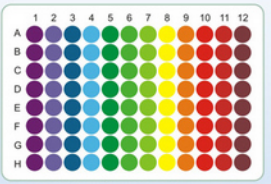
Unlike other Line-Genes in family, the unique patented block dissipation technology and bottom detection mode provide Line-Gene 9600 better heating/cooling rate, temperature accuracy, uniformity and stability. Line-Gene 9600 has up to 96 sample capacity and implements 96 wells dual-color scanning only within 5.5 seconds. With new design of at most eight channels, the instrument covers the whole fluorescence detection wavelength.

Adopting Ferrotec newest Peltier, fiber optic technology and a new global wide range power supply, the highly improved instrument is available for a variety of scientific research and clinical applications.

Working principle







※ up to 36℃ of the temperature range

All for you !
The best 16
Ensure Your Success

Peltier — Using excellent Ferrotec Peltier cooler inside.

Up to 96 samples, fit for most full skirted plate, 12×8-strips and 96×0.2ml tubes.

Auto Hotlid — Constant pressure hot-lid, automatically adjust height, effectively prevent reagent evaporation.

USB / Rs232 / Bluetooth — Multi-socket transformer, fir for RS232C, USB or blue tooth, PC-connection easily.

Patented block dissipation technology brings on excellent performance in heating and cooling rate.

Long-life LED light source, paired excitation, dual high-sensitivity PMT synchronous detection.

Highly temperature control accuracy and stability as Bioer's tradition.

Safe — Optional hot-lid temperature range, switch available. Plus front switch makes it safer.

Multi-C (Up To 8 Channels) — Up to 8 individual filters, cover all wavelength of common used dye.

°C Gradient — Maximum 36℃ temperature gradient control function, with calculator.

Advance — Automatically temperature control mode (Tube/Block) switch based on sample volume.

Windows 2000xp — Professional analysis software, installable for both Windows 2000/XP.

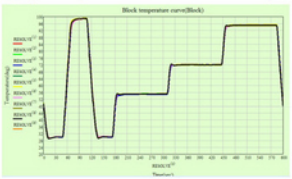
PMT BottomFrom™ — Bottom detection mode avoids interference between wells and insures result more reliable.

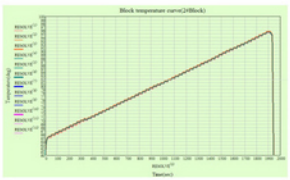
Block 4-105℃ + SOAK — Wide block temperature range: 4-105℃, with SOAK low temperature conservation function.

Both entire plate and designated line scan mode. Rapid for a 96 wells dual-color scanning.

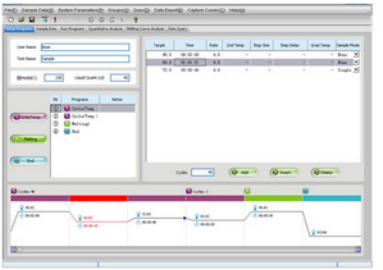
PFC Power — Global wide power supply range with PFC function.

Highly Temperature Control Accuracy & Stability

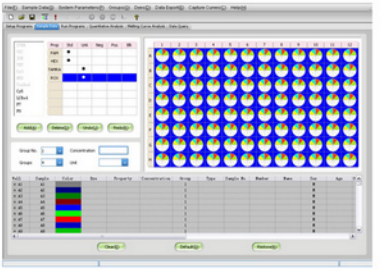




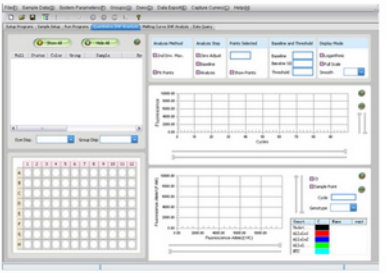
Interface Introduction:



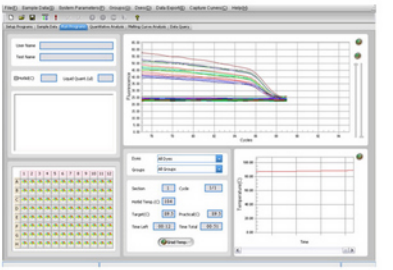
Software Programming



Well and Dye Setting



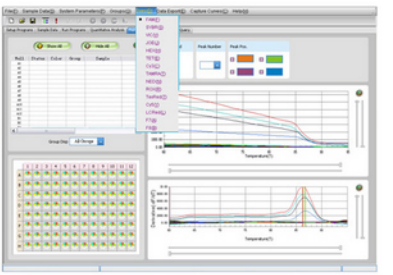
SNP Interface



Running Interface



Quantitative Analysis



Melting Curve Analysis

Specification:

Model	9640	9660	9680
Sample Capacity	96-Well Microplate (Full Skirted), 12×8-strip, 96×0.2ml (Bottom Transparent)		
Excitation Wavelength	300-800nm		
Emission Wavelength	500-800nm		
Detected Fluorescence	F1:FAM, SYBR Green I F2:VIC, HEX, TET, JOE F3:CY3 , NED, TAMRA, F4:ROX, TEXAS-RED	F1:FAM, SYBR Green I F2:VIC, HEX, TET, JOE F3:CY3 , NED, TAMRA, F4:ROX, TEXAS-RED F5:CY5 F6:LightCycler Red	F1:FAM, SYBR Green I F2:VIC, HEX, TET, JOE F3:CY3 , NED, TAMRA, F4:ROX, TEXAS-RED F5:CY5 F6:LightCycler Red F7, F8 for Customized
Block Temp. Range	4～105 ℃ (Minimum Increment ：0.1 ℃) SOAK Low Temp. Conservation Function		
Heating/Cooling Rate	4.0 ℃ /s		
Temp.Control Accuracy	≤±0.1 ℃		
Temp. Fluctuation	≤±0.1 ℃		
Temp. Uniformity	≤±0.3 ℃		
Temp. Control Mode	BLOCK/Tube Simulation Mode (Automatic Control Based On Sample Volume)		
Sample Volume Range	5~100μL		
Gradient Temp. Range	1~36 ℃		
Hot-lid Temp. Range	30～110 ℃ (Adjustable , Default 105℃， Automatic Hot-lid)		
Fluorescence Detection Repeatability	5%		
Scan Mode	Entire Plate or Designated Line		
Program	Max 20 Segments for Each Program, Max 99 Cycles		
Operation Mode	Continuous		
Scan Period	5.5s （F1/F2 96 Plate Scan）		
Feature Function	Absolute Quantification, Relative Quantification, SNP Analysis, Melting Curve, Gradient etc, Automatic Gain, Customized		
Operation System	Microsoft ： Windows2000/XP Software ： Excel2000/2002/2003 Access2000/2002/2003		
PC Configuration	Memory:512M Hard Disk:10GB CPU: Pentium® 4 Virtual Memory: ≥1000MB		
Power Supply	100-240V ～ 50/60Hz 600W		
Dimension (L×W×H)	430mm×395mm×352 mm		
Net Weight	28kg		
Socket	RS232C Adapter, USB Adapter（Optional）, Blue Tooth Adapter（Optional）		

Line-Gene K

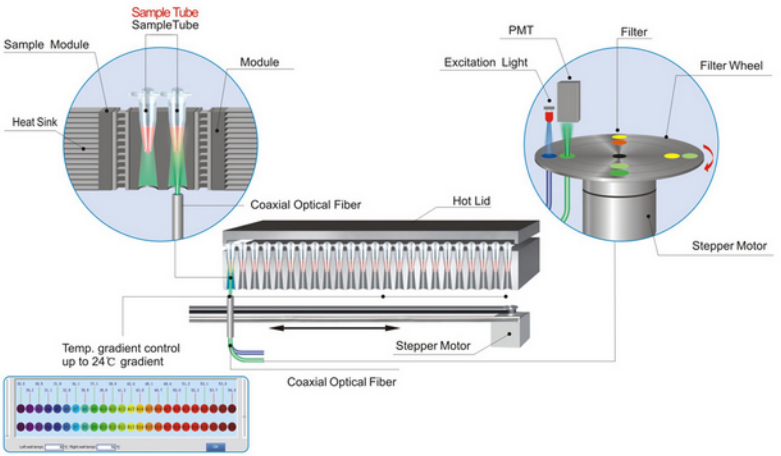


Line-Gene K features more advanced implementations of Peltier and fiber optic technology and a new direct current power system.

The new instruments share the Peltier effect and fiber optic design features that provide the exceptional accuracy and stability of the Line-Gene instruments. The new units offer improved uniformity, stability and accuracy by utilizing a constant-current power supply and an advanced multi-point temperature control module. The Line-Gene K has improved temperature control and more uniform heating throughout the sample block to improve the accuracy of PCR detection.

The Line-Gene K series is available in a range of automated and manual models with the ability to handle one, two, three or four combinations of excitation and emission wavelengths.

Working principle



13 items Just for you!



Volume adaptation— software automatically adjusts heat exchange to differences in sample volumes.



New multipoint temperature monitoring allows more accurate and uniform temperature control throughout the heating block.



Gradient function— creates a temperature gradient across the sample block. Maximum 24℃ difference between row 1 and row 24.



Sample preservation— after completion of experiment, the system can automatically refrigerate samples until they are moved to storage.



Use of direct current power supply improves thermal efficiency and reduces power consumption by 30%.



Improved optics— greater efficiency in fiber optic system provides reduced signal to noise ratio.



Automatic hot lid—provides constant pressure and software-managed temperature control.



Configuration upgradable—manual versions of the instrument can be upgraded to automatic. Systems can be upgraded from 1 wavelength to 4 wavelengths.



Multiple tube styles— the sample block will accept several styles of 0.2ml tubes including 8-tube strips.



Automatic amplitude adjustment— the instrument detects the fluorescence strength in the samples and automatically adjusts to the correct system sensitivity.



New software— a new generation of Line-Gene software provides even greater convenience and more powerful functions.

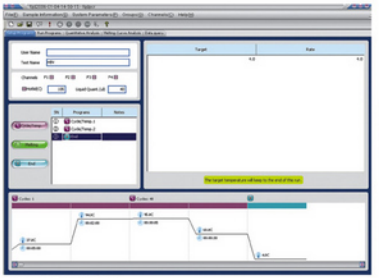


Upload software instructions— define experiment instructions with easy-to-use PC-based software, then upload to instrument.

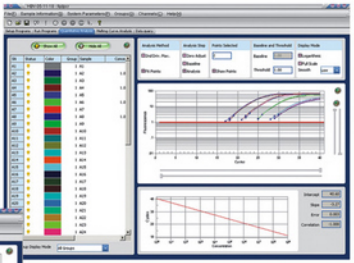


Overheating protection— if the operating environment exceeds the temperature range for operation within specification, the instrument will shut down. At 35℃ the instrument will sound a warning; it will turn off at 40℃.

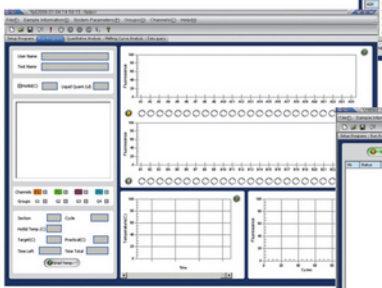
Interface Introduction:



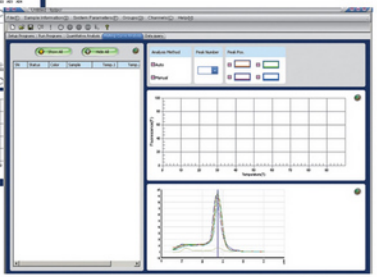
Software Programming



Quantitative analysis



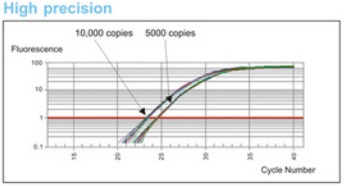
Running interface



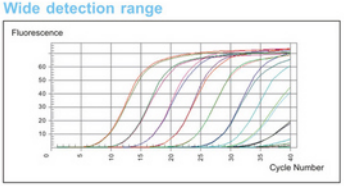
Melting curve

Software:

High precision



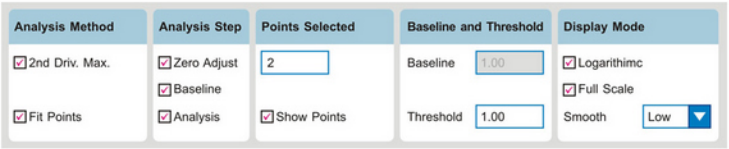
Wide detection range



SNPs Detection

Line-Gene system is a multicolor fluorescence detection system and can carry out the detection analysis of SNPs.

Two kinds of data analysis methods:



2nd Derivative Maximum:

This method automatically calculates the maximum second derivative value of every fluorescent curve and defines this value as the Ct value.

Fit Points:

The user sets baseline and a threshold values then draws a threshold line. Based on user instructions, the software will select a number of sample points on the fluorescence curve that are above baseline and in the logarithmic phase into a line. The intersection of this line with the threshold line is defined as the Ct value.

Specifications:

Model	FQD-48A(A4) (A4: means automatic lid and 4 channels)	FQD-48A(M2) (M2: means manual lid and 2 channels)
Sample Capacity	48×0.2ml	48×0.2ml
Sample Volume Range	10~100μl	10~100μl
Dynamics Range	10~10^{10}Copies	10~10^{10}Copies
Max. Channel Number of Fluorescence Detection	4 Channels	2 Channels
Excitation Wavelength (450-590nm)	Standard channels：F1:470nm F2:523nm F3:543nm F4:571nm	F1: 470nm F2:523nm
Emission Wavelength	Standard channels：F1:525nm F2:564nm F3:584nm F4:612nm	F1: 525nm F2:564nm
Detected Fluorescence	F1: FAM, SYBR Green Ⅰ F2: HEX, VIC F3: TAMRA, JOE, Cy3 F4: TEX RED, ROX	F1: FAM, SYBR Green Ⅰ F2: HEX, VIC
Temp. Range	4℃~99.9℃	4℃~99.9℃
Heating Rate (Max)	≥4.0℃/sec	≥4.0℃/sec
Cooling Rate (Max)	≥4.0℃/sec	≥4.0℃/sec
Temp. Uniformity of Block	≤±0.3℃	≤±0.3℃
Temp. Control Accuracy	≤±0.1℃	≤±0.1℃
Gradient Temp. Range	1℃~24℃	1℃~24℃
Hot-lid Temp. Range	80℃~110℃	80℃~110℃
Operation System	Windows 2000/XP	Windows 2000/XP
Power Supply	AC110~220V 50Hz/60Hz 650W	AC110~220V 50Hz/60Hz 650W
Dimension (mm)	520×450×320(L×W×H)	520×450×320(L×W×H)
Net Weight	25kg（Without Computer）	25kg（Without Computer）

* The end user can customize the channels number according to his requirements when he places an order.

Line-Gene

Line-Gene is an instrument for Real-Time PCR detection and quantification using reagent systems utilizing one of several different fluorescent markers. Nucleic acid sequences are detected and monitored by fluorescence intensity during the PCR process.



Patent No.: ZL 01 1 16421.2(in China)

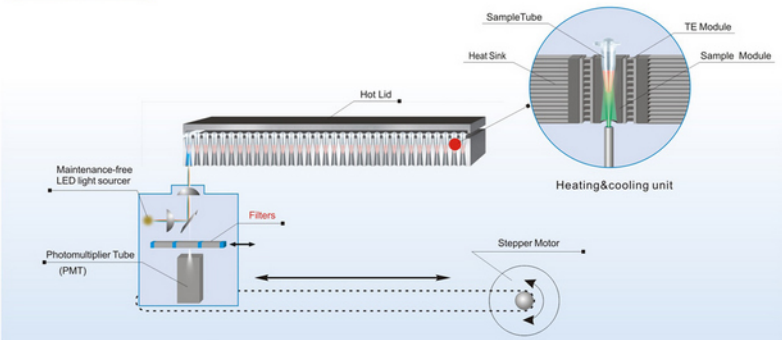
Features:

- Special designed Peltier Heating/Cooling unit
- LED+PMT Fluorescence test unit
- Low using cost
- Excellent system performance
- Simple and convenient software system

Multiple Applications:

Detection Format	Detection Channel	Reporter Dye
Simple Probe	F1: 530 nm	Fluorescein
Taqman Format	F1: 530 nm	FAM
Sybr Green I	F1: 530 nm	SYBR Green I
Hybridization Probe	F2: 640 nm F3: 710 nm	LC 640 LC 705

Working principle



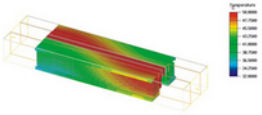
▲ Fluorescence detection at three wavelengths.

* See specification on page 17

Heating/Cooling unit

Faster:

Unique block design, extractly power supply, heating/cooling rate reaches 4℃/s in Max.p is suitable.



Nicety:

Professional and experienced Peltier technology, high precision of temperature control.

Uniformity:

Exact simulation temperature field analysis and air flow design make the temperature of block more uniform.

Conveniency:

Heating/cooling rate is adjustable; Location of wells were designed in reason, 8 strip is suitable.

Fluorescence detection system

Nicety:

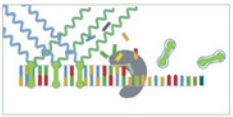
Single light detection to avoid disturb between wells

Sensitivity:

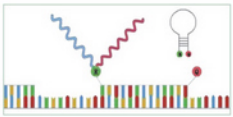
High performance PMT with high sensitivity;
Unique bottom detection mode can shorten light length and strengthen sensitivity

Conveniency:

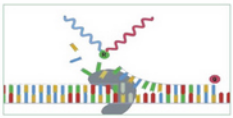
Long-lived LED excitation light source does not need maintenance or preheationg.
Automatically detecting and multiple groups of filters to detect many kinds of fluorescence simultaneously.



Fluorescence Dye



Molecular Beacon



TaqmanProbe

Specifications:

Model	FQD-33A		
Name	LineGene		
Sample Capacity	33×0.2ml	Heating Rate (Max.)	≥4℃/sec
Sample Volume Range	10~100μL	Cooling Rate (Max.)	≥4℃/sec
Dynamic Range	10-10^{10}Copies/ml	Block Temp. Uniformity	≤±0.4 ℃
Detection Channel	3	Temp. Accuracy	≤±0.3 ℃
Excitation wavelength	470nm	Power Supply	AC110~220V 50Hz 800W
Emission Wavelength	F1:530nm F2:640nm F3:710nm	Size (mm)	514×456×245(L×W×H)
Detected Fluorescence	FAM, SYBR Green Ⅰ, LC640, LC705	Net Weight	23kg (without computer)
Temp. Range	30℃~99 ℃	Operating System	Windows2000/XP

Life Science Instruments

Thermal Cycler





Bioer's Thermal Cycler is designed to meet the needs of today's laboratory. A Peltier thermoelectric (TE) module ensures precise temperature control. This makes the instrument versatile for many kinds of experimental methods that require temperature programing and control.





Gene-Pro 18
XP Cycler 20
Life-Pro 22
Life Express 23
GeneQ 24
Little Genius 24

Note: The parameters of Bioer's thermal cyclers may not be the same. The listed parameters are based on the products in the Chinese market. Please contact the local distributors for details.





Superior performance

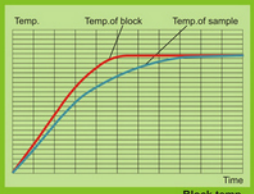
- The TC series thermal cyclers use the advanced Peltier Technology with the characteristics of high precision temperature control, fast cooling and heating speed, accurate temperature uniformity, small size, no contamination and low noises.
- The special designed peltier have the long life to meet the needs of PCR.
- The Hotlid enables the oil-free operation.
- Gradient function, with up to 30℃ of the temperature range. It can not only to optimize the annealing temperature, but also optimize all temperatures in PCR cycles, as well as meet the needs of even the most demanding tests.

Powerful software

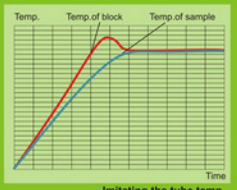
- The menus' software is more simple and intuitive to browse, edit and run PCR procedures.
- The large-capacity memory chips can hold 99-100 programs.
- The cooling and heating speed can be set up. All temperatures and times in the procedures can be automatically modified to suit the special requirements of PCR experiments.
- Program can be set up in sections or steps and the " Files Link " function meet the complex procedures set requirements like Touch Down PCR.
- The automatic resuming function after power failure can automatically restart the suspended experiment. temperatures in PCR cycles, as well as meet the needs of even the most demanding tests.

Multiple Temperature control modes

The users can choose TUBE mode or BLOCK mode in all TC series thermal cyclers, except Little Genius and non-gradient Life Express. The BLOCK mode directly reflects the changes of metal block. While the simulating TUBE mode is able to demonstrate the actual temperature changes of reagents. According to the reagents, to choose a suitable temperature control mode can achieve the best conditions of amplification.



Block temp.



Imitating the tube temp.

Gene-Pro

GenePro thermal cycler is the latest generation of thermal cycler with multiple functions tailored by Bioer.

With its powerful functions, GenePro guarantees the reliable and stable experimental result. The characteristics of the product provide a wide range of choices, but also highlights the individuality of design: it can meet not only a variety of experimental requirements ,such as gradient PCR,Touch down PCR, in situ PCR etc., but also the special operating requirements, such as technological security, on-line networking (LAN) operation etc..



Block: B96G / B3048 / B384G / B48D / B4I

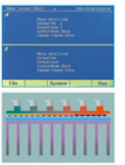
GenePro is applied to molecular biology, genetics, microbiology, medical, food industry, and judicial science, environmental science and other fields, which need the polymerase chain reaction (Polymerase Chain Reaction, PCR) as a mean to detect DNA or RNA for the purpose of genetic analysis and detection of pathogens.

Powerful performance

- **The excellent temperature uniformity**
  The temperature difference between the edge of the block to the central wells in a rare range.
- **Excellent precision temperature control**
  The best professional peltier device +Peltier control technology = Precise temperature control accuracy.
- **Excellent reliability and security**
  The long-life Peltier customized by Ferrotec as well as power protection and data storage functions ensure the life of the equipment and the security of experimental data.
- **Network control functions**
  More than one set of GenePro thermal cyclers can be controlled by a computer to meet the large number of experimental use

Diverse choices

- **Five blocks for your choice**
  - The GenePro main body accepts five interchangeable blocks in accordance with requirements of different PCR experiments. The special structural designed block and main body makes block change more convenient and fast. The main body of Genepro can automatically identify the block without manual settings.
  - The unique designed dual blocks can be run at the same time with two different PCR programs. The big screen shows the operational status of dual blocks in time so that one machine equivalents to two thermal cyclers!
  - The use of advanced peltier technology and multi-sensor module ensures that the gradient block can produce up to 30℃ gradient range , thus greatly reducing the time of optimizing PCR conditions.



* See specification on page 21

Two of the temperature control mode for your choose

- BLOCK mode
- TUBE simulation mode

Three kinds of file storage for your choose

- Equipment storage (password protection to protect your confidential technology!)
- USB flash memory interface
- LAN to a computer

Three modes of operation for your choose



Multiple shapes for OEM selection

Parts Products introduce

B96G Block

The block unit is made by the aluminum alloyed sample block with the hot-lid for 0.2 ml standard centrifuge tube (up to 96 pieces). It is applicable for 96x0.2ml microplate (Full skirted), 12×8 strips, 8×12 strips or 96×0.2ml tubes. The block can set a gradient temperature. The temperature and pressure of Hotlid are adjustable.

B3048 Block

The block unit is made by aluminum alloyed sample blocks with the hot-lid for 0.2 ml standard centrifuge tube (up to 48 pieces) and 0.5 ml standard centrifuge tube (up to 30 pieces). It is applicable for 4×12 trip, 30 × 0.5ml tubes and 48×0.2ml tubes . The temperature and pressure of Hotlid are adjustable

B-384G Block

The block unit is made by the aluminum alloyed sample block with the hot-lid for 384 microplate. The block can set a gradient temperature. The temperature and pressure of Hotlid are adjustable

B48D Block

The Block unit is made by two separated aluminum alloyed sample blocks with the hot-lid. Each block is for 0.2 ml centrifuge tube (up to 48 pieces). It is applicable for 6×8 strip , 48× 0.2ml tube. The temperature and pressure of Hotlid are adjustable

B4I Block

The block unit is made by the aluminum alloyed sample block for 4 pieces in situ plates.



B96G B3048 B384G B48D B4I

XP Cycler is a revolutionary multifunctional thermal cycler. Eight different interchangeable sample blocks give the XP Cycler exceptional versatility for PCR methods using tubes, strip wells or plates. Its high ramping rate and precision temperature control provide fast, accurate results. The extra large display and user-friendly interface make operation easy. The unit automatically recognizes which sample block is in place, eliminating the need for an operator to manually supply this information.



Eight interchangeable blocks for different kinds of application.

The XP Cycler automatically recognizes sample blocks and configures its software accordingly.



Single block



Single block



Dual block



Dual block



Dual block



384 wells block



Gradient block



In situ block





Extra large LCD display and user-friendly controllable software

Software provides easy programing and can be upgraded on-line.



Independely controlled dual blocks

Unique dual sample block design permits execution of two different programs simultaneously and independently.



With the gradient block, the XP cycler can easily find optimized PCR condition

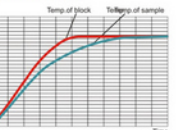
A maximum gradient of 30℃ can be realized.



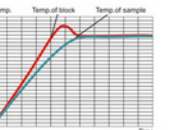
Hot lid pressure is adjustable

Allows optimum pressure adjustment for different kinds of tubes.

Choose from two modes of temperature control



Block temp.



Imitating the tube temp.

* See specification on page 21

Name	GenePro				
Model	TC-E				
Block Model	B96G	B3048	B384G	B48D	B4I
Sample Capacity	96-microplate (full-skirted) 12×8-strip 96×0.2ml	4×12-strip 48×0.2ml 30×0.5ml	384-microplate (full-skirted)	6×8-strip 48×0.2ml each block	4× standard in situ plates
Temp. Range	4–99℃				
Heating Rate (Max.)	≥4℃/sec				
Cooling Rate (Max.)	≥4℃/sec				
Block Temp. Uniformity	≤±0.2℃				
Block Temp. Accuracy	≤±0.1℃, ≤±0.2℃ (>90℃)				
Temp. of Hot Lid	20–110℃				
Ajustallbility of Hot Lid Press	Yes				
Gradient Range	1–30℃	———	1–30℃	———	———
Temp. Control Mode	Block or Tube				
Display	320×240 LCD ,3.8 inch				
Graph Display	Yes				
Program Storage	≥100 files, 100 files in GenePro +USB FLASH				
Max. Segments	5				
Max. Program Steps	16				
Max. Cycles	99				
Power Supply	AC110–220 50Hz 600W				
Size (mm)	368×250×285(L×W×H)				
Net Weight	10kg				
Interfaces	RS232, USB(FLASH), LAN (One computer can control up to 30 sets of GenePro)				

Note: The performance parameters above are for TC-E-B96G only.

Name	XP Cycler							
Model	TC-XP							
Block Model	XP-A	XP-B	XP-C	XP-D	XP-E	XP-F	XP-G	XP-H
Sample Capacity	96-microplate (half-skirted) 12×8-strip 96×0.2ml	60×0.5ml	30×0.5ml 30×0.5ml	48×0.2ml 48×0.2ml	48×0.2ml 30×0.5ml	384-microplate (full-skirted)	96-microplate (half-skirted) 12×8-strip 96×0.2ml	4× standard in situ plates
Temp. Range	4℃–99℃							
Heating Rate (Max.)	≥4.0℃/sec							
Cooling Rate (Max.)	≥3.0℃/sec							
Block Temp. Uniformity	≤±0.4℃							
Block Temp. Accuracy	≤±0.3℃							
Temp. of Hot Lid	30–110℃							
Ajustallbility of Hot Lid Press	Yes							
Gradient Range	———	———	———	———	———	———	1℃–30℃	———
Temp. Control Mode	Block or Tube							
Display	320×240 LCD ,5.7 inch							
Graph Display	Yes							
Program Storage	99 files							
Max. Segments	5							
Max. Program Steps	16							
Max. Cycles	99							
Power Supply	AC220V 50Hz 200VA							
Size (mm)	470×340×260 (L×W×H)							
Net Weight	10kg							
Interfaces	RS232							

Note: The performance parameters above are for TC-XP-A only.

LifePro

LifePro thermal cycler is the updated model of Life Express Gradient. Based on the old generation, LifePro has its extra functions and superiorities as below:

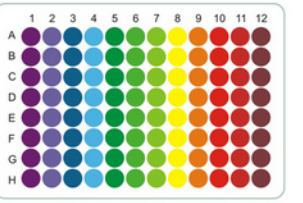


- Ultra-low noise design—Make a quiet and comfortable lab environment.
- Smaller size but stronger structures—Metal frames make the instrument smaller but stronger to resist the carrying force during the transportation.
- Large screen— More convenient and easier to operate. Available to select font size. Interface more friendly.
- Adjustable hot-lid pressure—Fit for various lab consumables, fulfill variety of application requirements.
- File password protection—Guarantee your private information much safer.
- USB storage function—Take your experiment data everywhere with you, more safe and convenient and to extend the storage of the protocols without the limitation
- Network function—One computer can control at most 30 LifePro, best for comically experiment or industry.
- Faster ramping rate—Up to 4℃/s for cooling or heating
- More capacity—The unit is compatible with the 96x0.2ml full skirted plate.

Gradient function thermal cycler

The gradient LifePro uses the advanced Peltier technology and the mature application design by BIOER, which has faster speed than tranditional models and better uniformity (≤ 0.2℃) with the accuracy (≤ 0.1℃) so that it ensures the reliability and repetition.

Gradient function, with up to 30℃ of the temperature range. It can not only to optimize the annealing temperature, but also optimize all temperatures in PCR cycles, as well as meet the needs of even the most demanding tests.



※ up to 30℃ of the temperature range

Life Express
(Gradient)

Life Express has a new model with the gradient funciton, which is an important model to be used in the laboratory. The user's interface with the softwares of the gradient cycler has a mutiple improvement based on tradiential models. The 30℃ wide range gradient function enable to optimize the experimental conditions with 96 wells. It is easy and intuitive to operate and increase the speed of the life sciences experiments.


● TC-96/G/H(b)

Gradient function thermal cycler

Gradient function, with up to 30℃ of the temperature range. It can not only to optimize the annealing temperature, but also optimize all temperatures in PCR cycles, as well as meet the needs of even the most demanding tests.

Super software performance

- 320×240 dot matrix LCD screen, graph display settings and real-time monitoring, clear interface.
- Sections or steps setting can be set up to meet the requirements of complex setting requirement
- Cooling and heating speed can be set up, and the temperature and time can be automatically modified to meet the special PCR setting.
- 100 programs storage to meet the multiple users' operation.
- The BLOCK mode and TUBE mode can be chosen.

Life Express
(none gradient)

- Three models like 96×0.2ml, 48×0.5ml and 48× 0.2ml for different customers. The 0.2ml blocks all accept 8-strips.
- 20×2 character LCD display software interface, PCR document editing, browsing and streamline the monitoring operation easy and clear.
- Document Link function and temperature, time function automatically modified to meet the complex set of procedures.


● TC-96/T/H(a)
● TC-48/T/H(a)
● TC-48/H(t)

* See specification on page 26

GeneQ

GeneQ thermal cycler garthers the superior performances, compact structure, a friendly user interface, and reliable results in one machine. Especially in the cooling and heating speed ,Temp.control accuracy, and uniformity of the block, GeneQ has its outstanding performance.



More outstanding performance for Blocks

- Faster: ⩾ 5 ℃/s maximum heating rate
- More accurate: ⩽ ± 0.3 ℃ block temp. accuracy
- More uniform: ⩽ ± 0.3 ℃ block temp. unifomity

※ Fast and easy change the sample blocks from 24x0.2ml into 18x0.5ml without need to change the hotlid.



Add hot-lid adjustment function

Hotlid temperature and pressure are both adjustable. Simple operation can meet different needs in experiments.

Super software performance

- 320×240 dot matrix LCD screen, graph display settings and real-time monitoring, clear interface.
- Sections or steps setting can be set up to meet the requirements of complex setting requirement
- Cooling and heating speed can be set up, and the temperature and time can be automatically modified to meet the special PCR setting.
- 100 programs storage to meet the multiple users' operation.
- The BLOCK mode and TUBE mode can be chosen.

Little Genius

- 25×0.2ml, 16×0.5ml and 24×0.2ml (8-strips) three blocks for your choice.
- 20×2 character LCD display software interface, PCR document editing, browsing and streamline the monitoring operation easy and clear.
- Document Link function and temperature, time function automatically modified to meet the complex set of procedures.
- Compact, light weight, economical and practical.



* See specification on page 26

Name	LifePro	Life Express			
Model	TC-96/G/H(b) A	TC-96/G/H (b)	TC-96/T/H (a)	TC-48/T/H (a)	TC-48/H (t)
Sample Capacity	96-microplate (full-skirted) 12×8-strip 96×0.2ml	96×0.2ml 12×8-strip 96-microplate(non-skirted)	96×0.2ml 12×8-strip	48×0.5ml	48×0.2ml 6×8-strip
Temp. Range	4~99℃	4℃~99.9℃	4℃~99℃		
Heating Rate (Max.)	≥4℃/sec	≥3.0℃/sec	≥3.0℃/sec		
Cooling Rate (Max.)	≥4℃/sec	≥2.0℃/sec	≥2.0℃/sec		
Block Temp. Uniformity	≤±0.2℃	≤±0.3℃	≤±0.4℃		
Block Temp. Accuracy	≤±0.1℃ ≤±0.2℃(90℃)	≤±0.3℃	≤±0.4℃		
Temp. of Hot Lid	30~110℃	30~110℃	105℃		
Gradient Range	1~30℃	1~30℃	——		
Temp. Control Mode	Block or Tube	Block or Tube	——		
Display	320×240 LCD ,5.7 inch	320×240 LCD ,3.8 inch	20×2 LCD		
Graph Display	Yes	Yes	——		
Program Storage	≥ 100 files	100 files	99 files		
Max. Segments	5	5	——		
Max. Program Steps	16	16	9		
Max. Cycles	99	99	99		
Power Supply	AC110~220 50Hz 600W	AC110~220V 50Hz 600VA	AC110~220V 50Hz 600VA		
Size (mm)	345×250×270(L×W×H)	400×270×240(L×W×H)	400×270×240 (L×W×H)		
Net Weight	10kg	7.5kg	7.5kg		
Interfaces	RS232，USB，LAN	RS232	RS232		

Name	GeneQ		Little Genius		
Model	TC-24/H(B)	TC-18/H(B)	TC-25/H	TC-16/H	TC-24/H
Sample Capacity	24×0.2ml 8-strip 24-microplate	18×0.5ml	25×0.2ml	16×0.5ml	24×0.2ml 8-strip 24-microplate
Temp. Range	4~99.9℃		4℃~99℃		
Heating Rate (Max.)	≥5℃/sec	≥4℃/sec	≥3.0℃/sec		≥3.0℃/sec
Cooling Rate (Max.)	≥4℃/sec	≥3℃/sec	≥2.0℃/sec		≥2.8℃/sec
Block Temp. Uniformity	≤±0.2℃		≤±0.4℃		
Block Temp. Accuracy	≤±0.2℃		≤±0.4℃	≤±0.5℃	≤±0.3℃
Temp. of Hot Lid	30~110℃		105℃		
Ajustalbility of Hot Lid Press	Yes		——		
Temp. Control Mode	Block or Tube		——		
Display	320×240 LCD ,3.8 inch		20×2 LCD		
Graph Display	Yes		——		
Program Storage	100 files		99 files		
Max. Segments	5		——		
Max. Program Steps	16		9		
Max. Cycles	99		99		
Power Supply	AC220V 50Hz 200VA		AC220V 50Hz 200VA		
Size (mm)	297×212×200(L×W×H)		285×218×178 (L×W×H)		
Net Weight	3.2kg		3.2kg		
Interfaces	RS232		RS232		

Life Science Instruments

Dry Bath

The Cooling & Heating Block is an instrument that provides a computer-controlled thermoelectric temperature environment for samples. Sample blocks are readily interchangeable so the instrument is readily adapted to different sample containers, i.e. tubes, plates, etc.

The Cooling & Heating Block can be used for sample preparation, enzyme preservation, enzyme-substrate reactions, DNA amplification and blood coagulation.

ThermoCell Mixing Block ····· 27

ThermoCell Cooling& Heating Block ····· 28

ThermoE Cooling& Heating Block ····· 29

ThermoUnit Cooling& Heating Block ····· 30















Multi blocks interchangeable provide a lot of test tube wells; and customized blocks are available according to the request of customer.

Notes:
The blocks are interchangeable for all ThermoCell series blocks.



ThermoCell Mixing Block

ThermoCell Mixing Block combines the functions of mixing and temperature control, providing a convenient means to incubate and react samples. This unit employs Peltier Effect heat exchange technology to provide accurate, stable temperature control. It can be used with a selection of interchangeable blocks for plates and tubes.

Features:

- Accurately control and monitor time, temperature and speed.
- Exact temperature control with PID circuit.
- Gentle, reliable mixing with long-life direct current motor.
- Low noises working even under the speed of 1,500rpm.
- Special damping provides quiet operation even at high speeds.
- Choose from several standard sample blocks for plates or tubes.
- Custom blocks are available to satisfy special experimental requirements.
- Large VFD display and simple controls provide a user-friendly interface.
- Conforms to CE safety standard.




● Elisa block


● Mix-block

Specifications:

Name	ThermoCell series MIXING BLOCK	
Model	MB-102 (MB-101)	
Temp. Setting Range	0~105℃	
Temp. Control Range	RT. -14℃~100℃	
Timing Range	1min-99h59min	
Mixing Speed	300rpm-1500rpm(rotation)	
Mixing Amplitude	3mm	
Temp. Control Accuracy	≤±0.5℃	
Display Accuracy	≤±0.5℃	
Temp. Uniformity	≤±0.5℃	
Heating Time	≤12min (from 20℃ to 100℃)	
Cooling Time	≤8min (from RT. to RT. -10℃)	≤15min (from 100℃ .to RT. +10℃)
Standard Block	A:40×1.5ml; B:54×0.5ml; C:96×0.2ml; D:24×Φ15mm;H:40×2.0ml; G:26 × 0.5ml + 24 × 1.5ml; J:Elisa Block	
Dimension (mm)	328×166×249 (L×W×H)	
Net Weight	8.5kg	
Power Supply	MB-102: AC220V±22V 50/60Hz ±1Hz 150W	MB-101: AC110V±11V 50/60Hz ±1Hz 150W

* Note: RT. :Room Temperature: (20℃~25℃)

ThermoCell Cooling & Heating Block

Features:

- Programmable for up to 5 sequential steps of different temperature and duration.
- Automatically adjusting (PID) control for temperature stability.
- Wide temperature setting range.
- Light-weight design for portability.
- Sample block design is easily removed for cleaning or replacement.
- Optional water bath block for added application flexibility.
- Peltier design of CHB-202 provides thermal efficiency, reliability and compact size.



ThermoE Cooling & Heating Block

Features:

- Peltier design provides thermal efficiency, reliability and compact size.
- Lightweight and compact - easily moved from place to place.
- Interchangeable aluminum alloy sample blocks provide versatility and allow easy cleaning and disinfecting.
- Digital time and temperature controls and displays.
- Custom blocks available.





ThermoUnit

Features:

- Peltier design of CHB-100 provides thermal efficiency, reliability and compact size.
- Metal module construction for easy replacement, cleaning and disinfecting.
- Digital display for both temperature and setting features.
- Aluminum alloy blocks ensure good temperature transfer.
- Custom blocks are available.



Specifications:

Model	Heating block（HB-202）	Cooling & Heating block（CHB-202）
Temp. Setting Range	10℃~105℃	-10℃~105℃
Temp. Control Range	Room temp. +5℃~100℃	0℃~100℃
Timing Range	1min~99h59min	1min~99h59min
Block Temp. Uncertainty	≤±0.5℃	≤±0.5℃
Block Temp. Accuracy	≤±0.5℃	≤±0.5℃
Block Temp. Uniformity	≤±0.5℃	≤±0.5℃
Heating Time	≤12min (from 20℃ to 100℃)	≤35min (from 20℃ to 100℃)
Cooling Time	———	≤25min (from 20℃ to 0℃)
Standard Block	A:40×1.5ml; B:54×0.5ml; C:96×0.2ml; D:24×Φ15mm; E:115mm×73mm×38mm (L×W×H) Water bath block H:40×2.0ml; G:26 × 0.5ml + 24 × 1.5ml；J:Elisa Block	A:40×1.5ml; B:54×0.5ml; C:96×0.2ml; D:24×Φ15mm; E:115mm×73mm×38mm (L×W×H) Water bath block H:40×2.0ml; G:26 × 0.5ml + 24 × 1.5ml；J:Elisa Block
Heating Parts	Heater	TE module
Cooling Parts	———	TE module
Size（mm）	300×200×150 (L×W×H)	300×200×150 (L×W×H)
Net Weight	2.8kg	3.3kg
Power Supply	AC220V 50Hz 120W	AC220V 50Hz 120W

* The performance parameters above are for standard block A only.
Others are to be informed later.

Specifications:

Name	ThermoEC	ThermoEH	ThermoES
Mode No:(block type)			
96×0.2ml	CHB-A4-9602	HB-A100-9602	CB-S4-9602
35×0.5ml	CHB-A4-3505	HB-A100-3505	CB-S4-3505
24×1.5ml	CHB-A4-2415	HB-A100-2415	CB-S4-2415
24×2.0ml	CHB-A4-2420	HB-A100-2420	CB-S4-2420
36×0.2ml+15×0.5ml+8×1.5ml	CHB-A4-HH	HB-A100-HH	CB-S4-HH
Temp. Control range	4℃~RT. -5℃ RT. +5℃~100℃	RT. +5℃~100℃	4℃
Heating time	≤32min (from 25℃ to 100℃)	≤40min (from 25℃ to 100℃)	———
Cooling time	≤32min (from 20℃ to 4℃)	———	≤32min (from 20℃ to 4℃)
Temp. Accuracy		≤±0.5℃	
Temp. Display accuracy		1℃	
Uniformity between blocks		≤±1℃ ≤±1℃ ≤±0.5℃	
Holding time of temp.		0~9h99min or ∞	
Input power		DC12V±1.5V, 60W (by power adapter)	
Size(mm)		180×140×140 (L×W×H)(Power adapter not included)	
Net Weight		1.5~2.2kg	

* Note: RT. :Room Temperature: (20℃~25℃)

Specifications:

Model	Heating block（HB-100）	Cooling & Heating block（CHB-100）
Temp. Range	Room temp. +5℃~100℃	0℃~100℃
Heating Time	≤22 min (from 20℃ to 100℃)	≤30 min (from 20℃ to 100℃)
Cooling Time	———	≤25 min (from 20℃ to 0℃)
Temp. Uncertainty	≤ ±0.3 ℃	
Temp. Accuracy	≤ ±0.2 ℃	
Temp. Uniformity	≤ ±0.5 ℃	
Standard Module	40×1.5ml + 28×0.5 ml	
Power Supply	AC 220V 50Hz 150VA	
Size（mm）	243×195×230（L×W×H）	
Net Weight	3.2kg	4.5kg

Life Science Instruments

Sample Preparing



This instrument uses magnetic bead extraction technology to extract and purify nucleic acids from sources such as blood, tissue and other cell masses. Its unique structural design provides time-saving, power-saving, and high efficiency operation, making it a valuable tool for laboratory research.

Mini-Run 31

Gene-Pure 32

Bio-Tanon 34





Mini-Run

The GE-100 apparatus can be used for agarose gel electrophoresis with applications throughout the biological sciences.

The electrophoresis chamber has a built-in DC power supply. The cover and gel migration (support) board are made from an engineering plastic resistant to etching. Electrodes are platinum for clean operation and durability.

This unit operates from 110V 50/60Hz power and is supplied with a power transformer to convert 220V 50Hz as needed.



● GE-100

Specifications:

Model	GE-100
Power Requirements	AC100V~110V 50~60Hz or AC 220V 50 Hz （With transformer）
Output Voltage	DC50V / DC100V
Volume of Electrophoresis Bath	250ml (for both chambers)
Size（mm）	192×130×60（L× W ×H） （electrophoresis chamber）
Net Weight	320g（This apparatus）

Accessories	
Sample Comb's Size tooth width×thickness×no. of teeth	4mm×1mm×8 4mm×1mm×17 6mm×1mm×6 6mm×1mm×12
Gel Chamber Capacity （mm）	60×55（4 pieces） 110×55（2 pieces）
Gel Migration Board Size （mm）	60×55 110×55
Transformer	AC220V（Input）/ AC110V（Output）

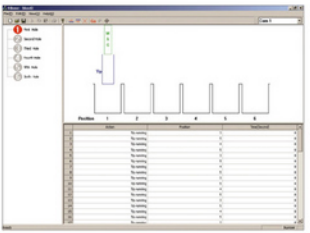
Gene-Pure

Gene-Pure is an automatic nucleic acid purification system. The unit will process up to 32 samples using magnetic affinity beads to absorb target nucleic acids while impurities are washed away. Automated purification is 4-5 times faster than manual methods, allowing lab workers to pursue other tasks.



● NPA-32

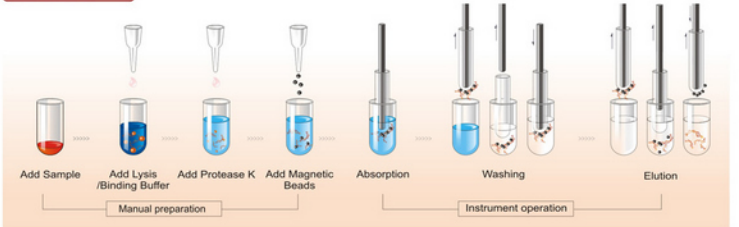
Software:



Features:

- High absorption and purification - Specially designed extraction kits are optimized to absorb the target nucleic acid from lysate and to maximize elution after washing. The purified extract is ready for use.
- Automated processing produces uniformity and high repeatability avoiding variations inherent to manual processing.
- The process is designed to minimize in-batch contamination and disposable plastic cannulas are used to minimize batch-to-batch contamination.
- Gene-Pure has many standard purification procedures ready for use and they can be customized to meet special experimental requirements.
- Automated purification with Gene-Pure reduces operator exposure to harmful chemicals. PC-based software control makes operation easy and convenient.

Principle



Principle of working method:

①**Lysing**: Place cells in lysis buffer to release nucleic acid into buffer.

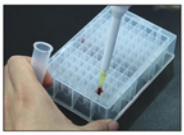
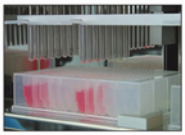
②**Adsorption**: Add magnetic affinity beads to the buffer to absorb nucleic acid.

③**Washing**: Repeatedly wash the beads to remove contaminating cellular material, protein, salt, etc.

④**Elute**: Transfer the beads to elution buffer and mix. The nucleic acid is released from the beads and dissolved in the buffer.

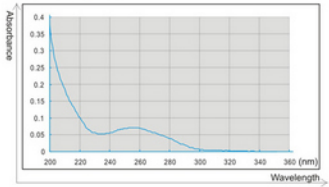
⑤**Reclaim**: Remove the magnetic beads and the purified nucleic acid solution is ready for use.

Working Process:

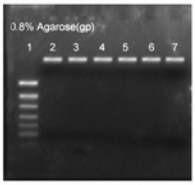

high-purified nucleic acid

Result Analysis:



Nucleic Acid Scan 28/10/03 13:32
Start wavelength 200
Sample
End wavelength 352

260	280	Ratio	Concentration
0.070	0.039	1.80	3.50



Line 1: 100 bp DNA Ladder

Lines 2, 3, 4, 5, 6, 7:
Genomic DNA (blood) purified on Gene-Pure using Bioer's reagent kit.
①Genomic DNA is intact.
②Extraction purity is high.
③Extraction efficiency is high.

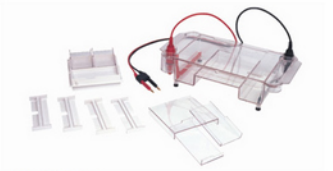
Specifications:

Model	NPA-32
Sample Capacity	32 samples
Processing Volumes	50–800 μ l
Magnetic Columns	4×8
Retention of Magnetic Particles	>90%
Programming	On-machine or with PC
Operating System	Windows 2000, XP
Size（L×W×H）	430×372×440mm
Power Supply	AC 110V~220V 50Hz/60Hz 330W
Net Weight	25kg

BioTANON Horizontal System CE

The HE-120 Multifunctional Horizontal Gel Electrophoresis Cell include many features that make casting and running agarose gels simple and efficient. The HE-120 system include these features that molecular biologists ask for:

- The Mini All-purpose Gel Caster eliminate the need for gel sealing tape during gel casting
- Multiple size gel trays(6×6cm,6×12cm,12×6cm,12×12cm) supple the choice of user and retrench the dosage of agrose
- Gel can be cast while the electrophoresis unit is being used or multiple gels can be cast in advance
- Multiple combs increase the number of samples that analyzed per gel
- Removable gel trays allow easy manipulation of the gel throughout processing
- Safety interlock lids prevent an electrical connection from being made until the lid is properly in place



HE-120

Specifications

Gel size	6 ×6cm 6 ×12cm 12 ×6cm 12 ×12cm	
Comb	1.0mm	25 teeth/11 teeth
	1.5mm	18 teeth/8teeth
	1.5mm	13teeth/6 teeth
	2.0mm	3teeth/2 teeth
Maximum Voltage	500V	
Typical buffer volume	1000ml	
Typical run times for agarose	45minutes	

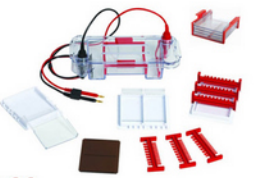
Maximum Sample Volume Per Well

Comb		Maximum Sample Volume
1.0mm	25 teeth/11 teeth	15μl
1.5mm	18 teeth/8teeth	25μl
1.5mm	13teeth/6 teeth	50μl
2.0mm	3teeth/2 teeth	80μl(Marker)/200μl/300μl/500μl

BioTANON Mini Horizontal System CE

The HE-90 Mini Horizontal Gel Electrophoresis Cell include many features that make casting and running agrose gels simple and efficient. The HE-90 system include these features that molecular biologists ask for:

- The Mini Gel Caster eliminate the need for gel sealing tape during gel casting
- Two size gel trays (8×5cm,8×10.5cm) supple the choice of user and retrench the dosage of agrose
- Up to 4 Gels can be pile up to run in one cell
- 9 to 204 samples can be run in one cell one time
- Combs fit the 8 channels pipet, 8 samples can be added one time
- Removable gel trays allow easy manipulation of the gel throughout processing
- Safety interlock lids prevent an electrical connection from being made until the lid is properly in place



HE-90

Specifications

Gel size	8× 5cm	8× 10.5cm
Comb	0.75mm	9 teeth/17 teeth
	1.50mm	9teeth/17 teeth
Maximum Voltage	250V	
pical buffer volume	400ml	
ypical run times for agarose	30minutes	

Maximum Sample Volume Per Well

Comb		Maximum Sample Volume
0.75mm	9 teeth	15μl
0.75mm	17 teeth	6.5μl
1.50mm	9teeth	30μl
1.50mm	17 teeth	13μl

BioTANON Mini Vertical System CE

The VE-180 Mini Vertical Gel Electrophoresis Cell system simplifies the process of casting and running gels by eliminating tedious assembly procedures. Not only does it let you work Ready Gel precast gels as well as hand-cast gels, it's quite simply the easiest-to-use system.

- Glass plates with permanently bonded spacer guarantee perfect alignment and leak free casting
- Glass spacer plates are thicker to reduce breakage
- Casting frames with simple cam closure provide precision alignment on any flat surface
- Plastic combs do not inhibit polymerization as Teflon combs do, and have a built-in idge to eliminate air contact during polymerization
- Glass plates and combs are marked with thickness and number of wells for instant identification
- Self-governed casting stand allows access to and cast personal gels
- The spring-loaded lever design creates a tight seal against the soft rubber gasket
- Sample loading guides aid in sample application by preventing skipping of lanes
- You can run either Ready Gel precast gels or hand-cast gels in the VE-180 electrophoresis module
- The VE-180 electrophoresis module runs two gels at once, or one gel using the molded one-piece buffer dam
- VE-180 cell for running hand-cast or precast PAGE and SDS-PAGE gels
- The modular electrode assembly is compatible with the VE-186 Mini Blotting Electrophoresis Cell for western blotting

VE-180



Specifications

Gel size	8.3 × 7.3cm(W × L)
Glass plate size	
Short plate	10 × 7.3cm(W × L)
Spacer plate	10 × 8.3cm(W × L)
Typical upper buffer volume	120ml
Typical lower buffer volume	180ml
Typical run times for SDS-PAGE	45minutes

Maximum Sample Volume per Well

Number of Well	0.75mm	1.0mm	1.5mm
10	22μl	44μl	66μl
15	20μl	26μl	40μl

BioTANON Mini Blotting System CE

The VE-186 Mini Blotting Gel Electrophoresis Cell module uses the same buffer rank as the VE-180 Mini vertical Gel Electrophoresis Cell. Two blots can be run in the unique molded module. The fragile platinum wire is protected in a recessed slot in the electrode assembly. The anode and cathode are 4 cm apart, which provides a high field strength for rapid one-hour transfers. The ice cooling unit dissipates heat generated during transfer. Tit also servers to reduce the amount of transfer buffer in the tank. With its modular design minimal buffer consumption and self-contained cooling, the VE-186 Mini Blotting Electrophoresis Cell is an efficient apparatus for obtaining quality blotting results.

The VE-186 Mini Blotting Electrophoresis Cell provides rapid, high-quality blotting of mini gels. It modular electrode assembly transfers two 7.5×10 cm gels in just one hour. Cooling is provided by ice cooling unit, which absorbs heat generated during transfers.

VE-186



Specifications

Overall dimensions	16 × 12 × 18 cm
Maximum gel size	7.5 × 10 cm
Buffer requirements	450 ml
Gel capacity	2 × VE-180 gels

Glass Plates Dry Holder

The VE-50 Glass Plates Dry Holder is designed for drying and storing glass plates after cleaning.

- Injection molding is easy to clean
- Glass plates placed vertically is convenient for drying anstoring
- The arc interface between the holder and glass plates avoid the damage of glass plates
- Be able to dry below 55℃ shorten the drying time



VE-50

BioTANON Power Supply

Bioer Power Supply are economical, compact, lightweight power supply designed for submarine or miniature vertical gel and miniature blot transfer electrophoresis. It offers timer control as well as constant voltage or constant current output.



EPS-100 Power Supply

Specifications

Output range (programmable)	50-120V in 1V steps 10-800 mA in 1 mA steps 100 W maximum
Type of output	Constant voltage
Output terminals	4 recessed seets in parallel
Timer	1-999 minutes
Safety features	No-load detection; sudden load change detection; overload/short circuit detection
Display	LED
Input Protection	Fuse
Operating conditions	Temperature:0-40℃
Dimensions	280(L)×195(W) ×85(H)mm
Weight	1.8kg



EPS-300 Power Supply

Specifications

Output range (programmable)	10-300V in 1V steps 4-400 mA in 1 mA steps 75 W maximum
Type of output	Constant voltage or constant current with automatic crossover
Output terminals	4 recessed seets in parallel
Timer	1-999 minutes
Safety features	No-load detection; sudden load change detection; overload/short circuit detection
Display	LED
Input Protection	Fuse
Operating conditions	Temperature:0-40℃
Dimensions	280(L)×195(W) ×85(H)mm
Weight	2kg

BioTANON Imaging System



Whether your applications are in proteomics, genomics, or anything in between, Bioer has a system for imaging and analyzing your gels, films, and blots. Bioer imaging systems are versatile and sensitive, covering your needs in chemiluminescent, chemifluorescent, colorimetric, and fluorescent detection, as well as spot excision. You can choose an instrument with some or all of these capabilities to fit your budget or anticipated future needs. GIS 1D Software is designed as a sophisticated software package for 1D analysis of gels, plates and membranes as well as colony counting.

Applications:

Depending on the camera used, the system may be used the following applications:

- Non-Fluorescent & Colorimetric Gels: Coomassie Blue, Silver stain, Autorad film, colony plates
- Fluorescent Gels: EB SYPRO Red Texas Red SYPRO Ruby, CY3, REP, SYPRO Orange, Rhodamine, SYBR Green, EGFP, Fluorescein, Pico Green, Gel Star, SYBR Gold
- Western Blots, Northern Blots and Southern Blots: ECL, ECL Plus, CDP Star, Pierce Super Signal, Pierce Westdura (Non-isotopic substrates only), Chemiluminescence blots(no fluorescence)

Key Features:

The Bioer Imaging system offers software control of darkroom and camera settings through the system's computer. Systems easily perform the routine imaging and analysis of a large variety of stained DNA and protein gels, blots as well as colony counting. Methods for all applications can be stored and recalled for immediate use. Specially developed image capture routines, such as dynamic and sequential integration, guarantee perfect exposures.

- Darkroom is completely light-tight for chemiluminescent imaging
- Pre-set or user-defined PC controls
- UV automatically turns off when the door is open
- Darkroom viewer pops open for sample viewing without opening door
- Software interface for automatic control of the lens' aperture, zoom and focus
- Select UV or white light overhead or transillumination

	Bioer-1600	Bioer-2500	Bioer-3500	Bioer-3500R
CCD Resolution	1280×1024	1280×1024	1280×1024	1280×1024
Pixel Density	8 bit	8 bit	10 bit	10 bit
Motorized Zoom Lens	F=1/1.2(2/3 inch), 12.5~75 mm	F=1/1.2(2/3 inch), 12.5~75 mm	F=1/1.2(2/3 inch), 12.5~75 mm	F=1/1.2(2/3 inch), 12.5~75 mm
Illumination Mode	Trans-UV & Reflect White Light	Trans-UV & Reflect White Light	Trans-UV & Reflect White Light	Trans-UV & Reflect White Light
Trans-UV Wavelength	302 nm	302 nm	302 nm	302 nm
Trans-UV Area	20×20 cm	20×20 cm	21×26 cm	21×26 cm
UV/White Light Conversion Screen	20×25 cm	20×25 cm	20×25 cm	20×25 cm
Filters	590 nm	590 nm	590 nm	590 nm

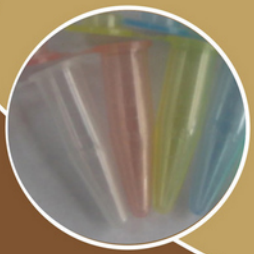
Life Science Instruments

Related and Consumables









Gene-Lab 39
Hatch-Master 42
Water Purification System 44
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Gene Lab (Model No.: SL-6040A)

BIOER's SL-6040A Gene Lab is a "turn-key" gene analysis laboratory. It provides an easy way to establish an area-segregated, nucleic acid amplification laboratory with uni-directional work-flow. Gene Lab will save you much of the time, effort and cost associated with traditional lab design and construction. The laboratory consists of three separate work areas, each with its own segregated air supply and buffered entry area.



A SAFE, SECURE SPACE FOR EXPERIMENTATION
Patent Number in China: 200420109896.9

Features:

- Complete laboratory installation from a fully engineered and standardized design. This allows rapid installation and eliminates the time and cost for developing a custom laboratory design.
- Design addresses air flow and sample handling requirements to control contamination.
- System includes an operation procedure that provides information on lab operating principles, equipment recommendations and organization, safety provisions/considerations and maintenance; information that provides a quick start toward development of your own customized analysis, quality control, maintenance and regulatory compliance procedures .
- Laboratory partitions are constructed of high quality, hard- surfaced materials including aluminum alloy hardware and wall panles.
- Gene Lab is supplied complete with built-in work surfaces, interior lighting, air filtration systems, sample handling airlocks and a fully plumbed preparation sink. Gene Lab is fully wired with electrical, telephone and computer network connections.
- A sophisticated contamination control system-comprised of segregated work areas with individual air-handling. These areas are well-designed to reduce the possibility of sample contamination.

Design Considerations:

Overall layout is in good style, establishments are self-contained, arrangement is reasonable.
Intend to provide a well-lighting and comfortable working environment.



Appropriately located racks for protective garments



Adjustable air flow vents in each work area.



Stainless steel sink with hands-free water faucet.



Special designed filters remove dust and other particulates.



Centrally located switch and circuit breaker panel.



Modular aluminum construction ensures airtight seams



Ergonomically designed work areas increase comfort and efficiency.



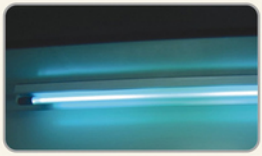
Each lab equipped with telephone and internet connections.

Measures For Anti-Contamination:

Segregated work areas with independent air pressure control:
Three segregated working areas are provided by the Gene Lab SL-6040A with different air flow control:
The air pressure in each working area can be independently adjusted to prevent aerosol contamination. Twin-doored entry chambers allow users to change gowns and shoe covers upon entering or exiting a critical work area.



①Set as standard three areas and air pressure is adjustable



②UV lamps help control cross-contamination



③Secure electronic airlock for sample transfer



④Air exhaust pipe system



⑤Safe and hermetic

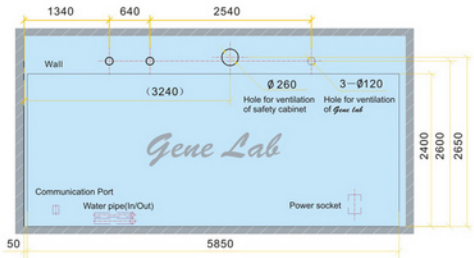
Installation requirements:

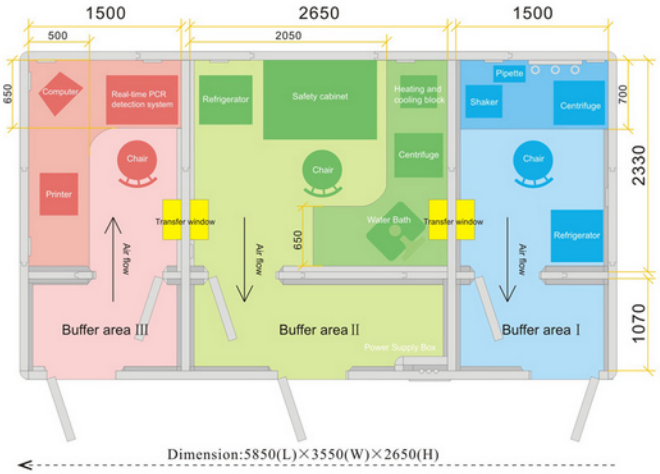
①The minimum installation space for a Gene Lab is 6.0 × 4.5 × 3.0 meters (L × W × H)

②The floor should be flat with a variance of less than 5 mm /2M.

③Preliminary site preparations must include:

- Installation of vent ductwork for positive airflow system
- Wiring for 220V/110V, 50 Hz, 5 kW
- Plumbing connections for water and drains
- Connections for network and telephone wiring





Additional Requirements for the Standard Installation, not included in SL-6040A Gene Lab

Equipment for PCR Amplification Area

• Real-Time PCR Detection System • Windows-based PC and Printer • Pipette • Mobile UV Lamp

Equipment for Sample Preparation Area

• Biological Safety Cabinet (class II) • Pipette • Refrigerator • Shaker • Heating/Cooling Block
• Waste Container • Mobile UV Lamp • High-Speed Refrigerated Centrifuge

Equipment for Reagent Preparation Area

• Refrigerator • Centrifuge • Pipette • Shaker • Mobile UV Lamp

Hatch-Master

The Hatch-Master is a temperature controlled shaker apparatus, well suited to biotechnology laboratories, especially for incubation and proliferation of various kinds of cell cultures. The system provides programmable shaking, time and temperature control so users can design and implement sequential operations with ease.



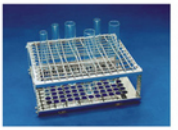






BYQ 6H60

The flask clamp for 250ml & 500ml triangle flasks.



BYQ 6012E

The flask clamp of 290mm×250mm for conventional tubes:
50mm×100mm,
20mm×200mm,
30mm×200mm.



Some of the notable operational features include:

- Choose agitation by reciprocation or rotation.
- Control temperature between 15℃and 60℃.
- Computer control - create programs of up to 20 steps for unattended operation on a Windows-based PC and upload specific programs to the Hatch-Master as needed.
- Peltier thermoelectric system with digital control ensures accurate, stable temperature control and reliability.
- Fail-safe power protection maintains program and data in the event of power loss.
- Intelligent monitor records events, performs self-testing and automatically corrects many malfunctions, including: sensor functions, temperature fluctuations, motor malfunctions and open-door events. The system issues audible alarms for malfunction events.
- Automatic PID circuit for accurate temperature maintenance.
- A temperature alarm can be set within a range of + 5° C of the programmed operating temperature.

Notable physical features include:

- Large, high definition vacuum fluorescent display, soft-touch control panel and friendly software interface provide easy user operation.
- Super large double-pane insulated window provides clear viewing.
- Easy-to-change shaker table automatically centers and can be locked in place while placing and removing containers.
- Optional flask clamps allow safe shaking of various shapes of containers.
- DC motor provides high power efficiency.
- Operation is quiet even at maximum speed.
- Door can be configured for left or right opening for convenience in different placement situations.
- A liquid drain is provided for easy clean-up after sills.

Specifications:

Model	SI-23MC
Temp. Uniformity Within Compartment	±1℃(37℃)
Temp. Control Accuracy	±0.2℃ (37℃)
Temp. Control Range	15℃~60℃
Temp. Calibration Range	±5℃
Heating/Cooling Component	Peltier Effect Heat Exchanger
Shaking Speed	20-300rpm
Speed Control Accuracy	300rpm±5rpm
Shaker Amplitude	25mm
Shaking Mode	Rotation, Reciprocation
Shaker Table Dimensions (mm)	290×250
External Dimensions (mm)	560×420×650 (L × W × H)
Maximum Load For Shaking	3.5kg
Time Setting Range	0 - 99 hours 59minutes
Running Mode	Program/General
Maximum Program Steps	20
Display Mode	Colorful VFD+LED
Supply Voltage	AC 220/110V, 50/60Hz, 400W
Power Requirement	400W
Net Weight	50KG

Unique CE

Based on RO-DI water purification technology, Unique can product both two kinds of laboratory - level pure water including RO and ultrapure at same time. It can fit under the conditions of tap water (salinity differences) and the models for different water was classified as "S" and "R" two series. All models can be configured with the optional Mw5000 ultrafiltration membrane and dual-wavelength UV modules, the system uses an external optional storage capacity of a closed pressure tanks (10-60L effective volume).



Tech Data \ Model			Unique - S*	Unique – R*
*Output capacity（L/H）[2]			15 / 30 / 45 / 60	10 / 20 / 30 / 40
RO water recovery [1]			25～60%	
Capacity of Storage Tank（L）			10 / 40 / 60	
RO-level processing			Single-stage RO	Two-stage RO
Water Purity	Ultraprue	Resistivity	18.2 MΩ.cm at 25℃	
		TOC	<15ppb （Basic model） < 5ppb （Basic＋UV Module）	
		Endotoxin	<0.001 Eu/ml（Basic＋UF Module）	
	Primary RO		Inorganics removal（Containing various ion）96-98%，Organic Compounds(MW>100Delton) and Bacterial removal >99%	<5 μ s/cm Organic Compounds（MW>100Delton） and Bacterial removal >99%
Flow rates（L/min）			Up to 1.5	
Bacteria（CFU/ml）			< 1	
Particles（>0.22um）			< 1	
Water quality monitor			2-way LCD Conductivity Monitor	
Quantitative Dispensing			0.1-500L（Accuracy ±1-3%）	
Recycle			Have（Timing belt）	
Leakage protection Device			Have	
UV Failure Alarm Function			Have	
Adjustment of system pressure			Adjustable	
Dimension（cm）			410×480×490 mm（W×H×D）	
Feeding Water			Tap water（Temperature 5-40℃，Pressure≥1kg/cm^2）	
Power			220V/100-200W	
Application	Primary RO		Glassware cleaning, water cultivation water, as ultrapure water system, high-pressure sterilization system, the built environment rooms, steam generator inlet	
	Ultra-pure		● Basic - AAS and ICP-ES, IC (ion chromatography); ● UV type ——inorganic analysis, such as the ICP-MS, flame atomic absorption spectrometry, IC, Strict (HPLC) Liquid Chromatography、GC-MS、Trace Analyse. ● UV+UF Model——Strict tissue culture、molecular biology （DNA analysis、Sequencing、PCR and Electrophoresis）	

[1/2] RO system at 25 ℃, feeding water pressure 1.5 kg/cm^2

Spring CE

Spring is a kind of practical,aesthetic,compact and convenient system. It uses the most advanced RO-DI water purification technology，to a high-efficiency and low water consumption, easy solution of laboratory intermediate and the primary water (instead of distillation), as well as a perfect feeding water supplier for ultra-pure water systems, biochemical, biological and other downstream equipments. Spring total of three series of products to meet different.



needs：

- Spring —— Providing primary RO water (type III), the use of our patented automatic qualitative water quality monitoring technology;
- Spring-i ——provide primary and Intermediate Water (type III + type II), the use of automatic qualitative water quality monitoring technology (monitoring Intermediate);
- Spring-i+ —— Provide Type III + type I pure water, on the basis of Spring-i increases in circulation and on-line LCD monitor water quality resistivity (2 of the water quality control), to further expand the scope of application.

Model / Tech Data		Spring - S*	Spring – R*
*Output capacity（L/H）[1]		10～60	10～40
RO water recovery [2]		25～60%	
Storage tank		Matching（Effective Capacity 10L / 15L / 40L / 60L）	
RO-level processing		Single-stage RO	Two-stage RO
Water purity	Primary (RO)	Inorganics removal（Containing various ion）96-98%, Organic Compounds（MW>100Delton）And Bacterial / particulate removal >99%	<5μs/cm（Superior Type III）Organic Compounds（MW>100Delton）And Bacterial / particulate removal >99%
	Spring-i RODI	> 2 or > 5MΩ.cm（Adjustable alarm limits）	
	Spring-i+ RODI	10-15 MΩ.cm，up to 17.0 MΩ.cm（with timer controll）	
Flow rates of drawing（L/min）		Up to 1.8L/min	
Monitor	Spring	Qualitative（5.0、2.0、0.2、0.1MΩ.cm Alarm limits options，Standard）	
	Spring-i	Option ——Online LCD Conductivity	
	Spring- i+	Monitoring paragraph 2——Qualitative＋Online LCD Resistivity	
System Protection Device		Leakage protection、Lack of Water source protection、Tank full protection	
Adjustment of system pressure		Adjustable	
Controller parameter		Display panel——Blue-ray LED indicator and Gently touch waterproof button consumable change reminders, 2 kinds of Automatic maintenance mode Adding up time record of system operating(**day**hours) Interruption procedures Protection Disinfection procedures inside Auto diagnosis of pretreatment filters' jam	
Dimension		420×420×250 mm（W×H×D），Desktop Can be linked in the wall (Option of stand)	
Source Water		Municipal tap water（Temperature5-40℃，Pressure≥1kg/cm^2）	
Power / Power		220V/50-100W	
Application	Primary（RO）	Glassware cleaning, water cultivation water, as ultrapure water system, high-pressure sterilization system, the built environment rooms, steam generator inlet、Conventional reagent preparation.	
	Intermediate（RODI）	Flame Atomic Absorption, the general organization of cell culture, cell and tissue structure preparation, electronic photographs, by polarization, water quality analysis and immunocytochemistry, electrophysiology, electrochemical, conventional use HPLC, reagent preparation / dilution buffer / solvent preparation, hygiene of the analyzer, Applied Chemistry qualitative analysis	

1/2 RO system in the water temperature at 25 ℃, source water pressure 1.5 kg/cm2, and the recovery of production water

2 This indicator can be adjusted to choose a suitable recovery follow the guidance of professional technical staff

Omni CE



OMNI is an independent ultra - pure water purification system different from RODI series.

Omni is compact and can be operating easily , at the same time, the consideration of safety, easy & automatic maintenance and low-cost operation has also been done finely.

Omni range has 4 models specifically designed to deliver the ideal water quality for your bioscience or analytical requirements.

Technical Data

	Life Sciences		Analysis	General Science
Model	Genetic	Bioscience	Analytic	Scientific
Performance Parameters				
Resistivity（at 25℃）	18.2MΩ.cm	18.2MΩ.cm	18.2MΩ.cm	18.2MΩ.cm
TOC（RO Pretreatment）				
Bacteria	<1CFU/ml	<1CFU/ml	<1CFU/ml	<1CFU/ml
Bacterial endotoxin	<0.001Eu/ml	<0.001Eu/ml	—	—
Technical Specifications				
Dimension[1]	W420×H450×D358mm			
Weight	20kg			
Power	24V/80W			
Safety Design	Leakage protection Device • High Pressure Protection Device • UV Failure Alarm • Automatic Induction of water source • Interruption procedures Protection • Emergency start			
System Monitoring	Online Resistivity LCD Monitor			
Manu Language	Chinese / English（with Backlight）			
Control Panel	Gently touch Waterproof button			
RS232 Interface	Have			
Flow rates[2]	1.0-1.5L/min（Source water pressure0-2kg/cm^2）			
Capacity (>18.2 MΩ.cm)	60000L+Conductivity（μs/cm, at PH7.0）			
System Disinfection	Automatic（Disinfection procedures inside）			
Operating mode	Three（Work－Continuous operation、Standby－Intermittent operation、Stop）			
Support for drawing mode	Electric＋Manual			
Water requirements				
Water—— RO water • Distilled water（Recommended the use of Spring Series system）				
Pollution Index（FI）[3] <1 Residual chlorine <0.05ppm CO_2 <30ppm TOC <50ppb Conductivity <20μs/cm				
Silicon<2ppm Water Pressure[2] ——0-2.0kg/cm^2 Temperature ——1-40℃				

[1] Containing the front cover of drawing（D=90mm）

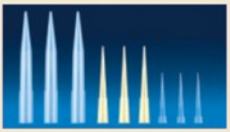
[2] Configuration of ultrafiltration (UF) water source pressure must be ≤ 0.4 kg/cm^2(pressure reducing valve may be need), flow rates will be decreased（~15%）

[3] Pollution Index FI Or SDI（Siltation index）, indicates the colloid & particle pollution in the water

Consumables

Tips

0.1~10ul, 0.5~10ul, 10~200ul, 300ul, 100~1,000ul, 100~5,000ul



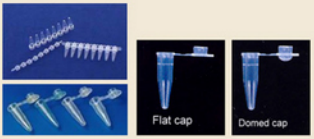
Filter Tips

0.1~10ul, 10~100ul, 10~200ul, 100~1,000ul



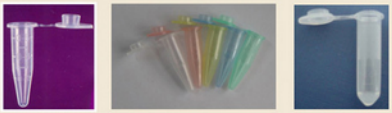
Thin Wall PCR Tubes

200ul, 0.5ml with cap (domed or flat), 8x200ul strips



Graduated Centrifuge Tubes

0.6ml, 1.5ml, 2.0ml



Consumables

	MICRO TIPS
BMSSGHA01S1	0.1~10ul, Short, Natural, 1,000/Bag
BMSSGHA02S1	0.1~10ul, Short, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA03S1	0.1~10ul, Mid, Natural, 1,000/Bag
BMSSGHA04S1	0.1~10ul, Mid, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA05S1	0.5~10ul, Long, Natural, 1,000/Bag
BMSSGHA06S1	0.5~10ul, Long, Natural, 96/Box, Certificated RNase, DNase-Free
	TIPS
BMSSGHA07S1	10~200ul with graduations at 10, 50, 100ul, Yellow, 1,000/Bag
BMSSGHA08S1	10~200ul with graduations at 10, 50, 100ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA09S1	10~200ul with graduations at 10, 50, 100ul, Natural, 5 Layer Box, Certificated RNase, DNase-Free
BMSSGHA10S1	10~200ul, Yellow, 1,000/Bag
BMSSGHA11S1	10~200ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA12S1	300ul, Natural, 1,000/Bag
BMSSGHA13S1	300ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA14S1	100~1,000ul，Blue, 1,000/Bag
BMSSGHA15S1	100~1,000ul，Blue, 96/Box, Certificated RNase, DNase-Free
BMSSGHA16S1	100~5,000ul, Natural, 250/Bag
BMSSGHA17S1	100~5,000ul, Natural, 50/Bag, Certificated RNase, DNase-Free
BMSSGHA18S1	100~5,000ul, Natural, 100/Bag
	MICRO FILTER TIPS
BMSSGHA19S1	0.1~10ul, Natural, 1,000/Bag
BMSSGHA20S1	0.1~10ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA21S1	0.1~10ul, Natural, 1,000/Bag
BMSSGHA22S1	0.1~10ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA23S1	0.1~10ul, Narrow, Natural, 1,000/Bag
BMSSGHA24S1	0.1~10ul, Narrow,Natural, 96/Box, Certificated RNase, DNase-Free
	FILTER TIPS
BMSSGHA25S1	10~100ul, Natural, 1,000/Bag
BMSSGHA26S1	10~100ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA27S1	10~200ul, Natural, 1,000/Bag
BMSSGHA28S1	10~200ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA29S1	100~1,000ul, Natural, 1,000/Bag
BMSSGHA30S1	100~1,000ul, Natural, 96/Box, Certificated RNase, DNase-Free
	PCR TUBES
BMSSGHE01S1	200ul, Flat Cap With Writing Surface, Autoclavable, Nature, 1,000/Bag
BMSSGHE02S1	200ul, Flat Cap With Writing Surface, Autoclavable, Blue, 1,000/Bag
BMSSGHE03S1	200ul, Flat Cap With Writing Surface, Autoclavable, Green, 1,000/Bag
BMSSGHE04S1	200ul, Flat Cap With Writing Surface, Autoclavable, Red, 1,000/Bag
BMSSGHE05S1	200ul, Flat Cap With Writing Surface, Autoclavable, Yellow, 1,000/Bag
BMSSGHE06S1	200ul, Domed Cap With Writing Surface, Autoclavable, Nature, 1,000/Bag
BMSSGHE07S1	200ul, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, 10/Bag, 100 Bag/Pack
BMSSGHE08S1	200ul, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, 100/Bag, 10 Bag/Pack
BMSSGHE09S1	200ul, Domed Cap, Certified Rnase, Dnase-Free, 10/Bag, 100 Bag/Pack
BMSSGHE10S1	200ul, Domed Cap, Certified Rnase, Dnase-Free, 100/Bag, 10 Bag/Pack

Consumables

BMSSGHE11S1	0.5ml, Flat Cap With Writing Surface, Autoclavable, Nature, 1,000/Bag
BMSSGHE12S1	0.5ml, Flat Cap With Writing Surface, Autoclavable, Blue, 1,000/Bag
BMSSGHE13S1	0.5ml, Flat Cap With Writing Surface, Autoclavable, Green, 1,000/Bag
BMSSGHE14S1	0.5ml, Flat Cap With Writing Surface, Autoclavable, Red, 1,000/Bag
BMSSGHE15S1	0.5ml, Flat Cap With Writing Surface, Autoclavable, Yellow, 1,000/Bag
BMSSGHE16S1	0.5ml, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, Nature, 1,000/Bag
BMSSGHE17S1	0.5ml, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, 10/Bag, 100 Bag/Pack
BMSSGHE18S1	0.5ml, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, 100/Bag, 10 Bag/Pack
	PCR STRIP TUBES
BMSSGHE19S1	200ul, Autoclavable, Nature, 120/Bag
BMSSGHE20S1	200ul, Certified Rnase, Dnase-Free, Nature, 120/Bag
BMSSGHE21S1	200ul, Autoclavable, Nature, 120/Bag
BMSSGHE22S1	200ul, Certified Rnase, Dnase-Free, Nature, 120/Bag
BMSSGHE23S1	200ul, Autoclavable, Nature, 120/Bag
BMSSGHE24S1	200ul, Autoclavable, Nature, 120/Bag
BMSSGHE25S1	200ul, Autoclavable, Nature, 120/Bag
BMSSGHE26S1	200ul, Autoclavable, Nature, 120/Bag
	GRADUATED CENTRIFUGE TUBES
BMSSGHC01S1	0.6ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Natural, 1,000/Bag
BMSSGHC02S1	0.6ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Brown, 1,000/Bag
BMSSGHC03S1	0.6ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Blue, 1,000/Bag
BMSSGHC04S1	0.6ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Green, 1,000/Bag
BMSSGHC05S1	0.6ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Red, 1,000/Bag
BMSSGHC06S1	0.6ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Yellow, 1,000/Bag
BMSSGHC07S1	0.6ml, Sterilized, Certified Dnase and Rnase-Free, With Flat Top Cap And Writing Surface, Available For -80℃ +120℃, Up To 17,000×G, Natural, 1,000/Bag
BMSSGHC08S1	1.5ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Natural, 1,000/Bag
BMSSGHC09S1	1.5ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Brown, 1,000/Bag
BMSSGHC10S1	1.5ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Blue, 1,000/Bag
BMSSGHC11S1	1.5ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Green, 1,000/Bag
BMSSGHC12S1	1.5ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Red, 1,000/Bag
BMSSGHC13S1	1.5ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Yellow, 1,000/Bag
BMSSGHC14S1	1.5ml, Sterilized, Certified Dnase and Rnase-Free, With Flat Top Cap And Writing Surface, Available For -80 ℃ +120℃, Up To 17,000×G, Natural, 1,000/Bag
BMSSGHC15S1	1.5ml, Top-Color-Coded, Blue, With Flat Top Cap And Writing Surface, Autoclavable, 1,000/Bag
BMSSGHC16S1	1.5ml, Top-Color-Coded, Green, With Flat Top Cap And Writing Surface, Autoclavable, 1,000/Bag
BMSSGHC17S1	1.5ml, Top-Color-Coded, Purple, With Flat Top Cap And Writing Surface, Autoclavable, 1,000/Bag
BMSSGHC18S1	1.5ml, Top-Color-Coded, Red, With Flat Top Cap And Writing Surface, Autoclavable, 1,000/Bag
BMSSGHC19S1	1.5ml, Top-Color-Coded, White, With Flat Top Cap And Writing Surface, Autoclavable, 1,000/Bag
BMSSGHC20S1	1.5ml, Top-Color-Coded, Yellow, With Flat Top Cap And Writing Surface, Autoclavable, 1,000/Bag
BMSSGHC21S1	2.0ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Natural, 1,000/Bag
BMSSGHC22S1	2.0ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Brown, 1,000/Bag
BMSSGHC23S1	2.0ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Blue, 1,000/Bag
BMSSGHC24S1	2.0ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Green, 1,000/Bag
BMSSGHC25S1	2.0ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Red, 1,000/Bag
BMSSGHC26S1	2.0ml, With Flat Top Cap And Writing Surface, Autoclavable, Available For Up To 16,000×G, Yellow, 1,000/Bag
BMSSGHC27S1	2.0ml, Sterilized, Certified Dnase and Rnase-Free, With Flat Top Cap And Writing Surface, Available For -80 ℃ +120℃, Up To 17,000×G, Natural, 1,000/Bag
	CONICAL CENTRIFUGE TUBES
BMSSGHC28S1	5ml(15×50mm), Round Bottom, With Flat Caps, Available For Up To 10,000RPM, -70 ℃+120℃, 100/Bag
BMSSGHC29S1	10ml(17×78mm), Round Bottom, With Flat Caps, Available For Up To 10,000RPM, -70 ℃+120℃, 100/Bag

Consumables

	MICRO TIPS
BMSSGHA01S1	0.1~10ul, Short, Natural, 1,000/Bag
BMSSGHA02S1	0.1~10ul, Short, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA03S1	0.1~10ul, Mid, Natural, 1,000/Bag
BMSSGHA04S1	0.1~10ul, Mid, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA05S1	0.5~10ul, Long, Natural, 1,000/Bag
BMSSGHA06S1	0.5~10ul, Long, Natural, 96/Box, Certificated RNase, DNase-Free
	TIPS
BMSSGHA07S1	10~200ul with graduations at 10, 50, 100ul, Yellow, 1,000/Bag
BMSSGHA08S1	10~200ul with graduations at 10, 50, 100ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA09S1	10~200ul with graduations at 10, 50, 100ul, Natural, 5 Layer Box, Certificated RNase, DNase-Free
BMSSGHA10S1	10~200ul, Yellow, 1,000/Bag
BMSSGHA11S1	10~200ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA12S1	300ul, Natural, 1,000/Bag
BMSSGHA13S1	300ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA14S1	100~1,000ul，Blue, 1,000/Bag
BMSSGHA15S1	100~1,000ul，Blue, 96/Box, Certificated RNase, DNase-Free
BMSSGHA16S1	100~5,000ul, Natural, 250/Bag
BMSSGHA17S1	100~5,000ul, Natural, 50/Bag, Certificated RNase, DNase-Free
BMSSGHA18S1	100~5,000ul, Natural, 100/Bag
	MICRO FILTER TIPS
BMSSGHA19S1	0.1~10ul, Natural, 1,000/Bag
BMSSGHA20S1	0.1~10ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA21S1	0.1~10ul, Natural, 1,000/Bag
BMSSGHA22S1	0.1~10ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA23S1	0.1~10ul, Narrow, Natural, 1,000/Bag
BMSSGHA24S1	0.1~10ul, Narrow,Natural, 96/Box, Certificated RNase, DNase-Free
	FILTER TIPS
BMSSGHA25S1	10~100ul, Natural, 1,000/Bag
BMSSGHA26S1	10~100ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA27S1	10~200ul, Natural, 1,000/Bag
BMSSGHA28S1	10~200ul, Natural, 96/Box, Certificated RNase, DNase-Free
BMSSGHA29S1	100~1,000ul, Natural, 1,000/Bag
BMSSGHA30S1	100~1,000ul, Natural, 96/Box, Certificated RNase, DNase-Free
	PCR TUBES
BMSSGHE01S1	200ul, Flat Cap With Writing Surface, Autoclavable, Nature, 1,000/Bag
BMSSGHE02S1	200ul, Flat Cap With Writing Surface, Autoclavable, Blue, 1,000/Bag
BMSSGHE03S1	200ul, Flat Cap With Writing Surface, Autoclavable, Green, 1,000/Bag
BMSSGHE04S1	200ul, Flat Cap With Writing Surface, Autoclavable, Red, 1,000/Bag
BMSSGHE05S1	200ul, Flat Cap With Writing Surface, Autoclavable, Yellow, 1,000/Bag
BMSSGHE06S1	200ul, Domed Cap With Writing Surface, Autoclavable, Nature, 1,000/Bag
BMSSGHE07S1	200ul, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, 10/Bag, 100 Bag/Pack
BMSSGHE08S1	200ul, Flat Cap With Writing Surface, Certified Rnase, Dnase-Free, 100/Bag, 10 Bag/Pack
BMSSGHE09S1	200ul, Domed Cap, Certified Rnase, Dnase-Free, 10/Bag, 100 Bag/Pack
BMSSGHE10S1	200ul, Domed Cap, Certified Rnase, Dnase-Free, 100/Bag, 10 Bag/Pack

BioTANON Mini Vertical System CE

The VE-180 Mini Vertical Gel Electrophoresis Cell system simplifies the process of casting and running gels by eliminating tedious assembly procedures. Not only does it let you work Ready Gel precast gels as well as hand-cast gels, it's quite simply the easiest-to-use system.

- Glass plates with permanently bonded spacer guarantee perfect alignment and leak free casting
- Glass spacer plates are thicker to reduce breakage
- Casting frames with simple cam closure provide precision alignment on any flat surface
- Plastic combs do not inhibit polymerization as Teflon combs do, and have a built-in idge to eliminate air contact during polymerization
- Glass plates and combs are marked with thickness and number of wells for instant identification
- Self-governed casting stand allows access to and cast personal gels
- The spring-loaded lever design creates a tight seal against the soft rubber gasket
- Sample loading guides aid in sample application by preventing skipping of lanes
- You can run either Ready Gel precast gels or hand-cast gels in the VE-180 electrophoresis module
- The VE-180 electrophoresis module runs two gels at once, or one gel using the molded one-piece buffer dam
- VE-180 cell for running hand-cast or precast PAGE and SDS-PAGE gels
- The modular electrode assembly is compatible with the VE-186 Mini Blotting Electrophoresis Cell for western blotting

VE-180



Specifications

Gel size	8.3 × 7.3cm(W × L)
Glass plate size	
Short plate	10 × 7.3cm(W × L)
Spacer plate	10 × 8.3cm(W × L)
Typical upper buffer volume	120ml
Typical lower buffer volume	180ml
Typical run times for SDS-PAGE	45minutes

Maximum Sample Volume per Well

Number of Well	0.75mm	1.0mm	1.5mm
10	22μl	44μl	66μl
15	20μl	26μl	40μl

BioTANON Mini Blotting System CE

The VE-186 Mini Blotting Gel Electrophoresis Cell module uses the same buffer rank as the VE-180 Mini vertical Gel Electrophoresis Cell. Two blots can be run in the unique molded module. The fragile platinum wire is protected in a recessed slot in the electrode assembly. The anode and cathode are 4 cm apart, which provides a high field strength for rapid one-hour transfers. The ice cooling unit dissipates heat generated during transfer. Tit also servers to reduce the amount of transfer buffer in the tank. With its modular design minimal buffer consumption and self-contained cooling, the VE-186 Mini Blotting Electrophoresis Cell is an efficient apparatus for obtaining quality blotting results.

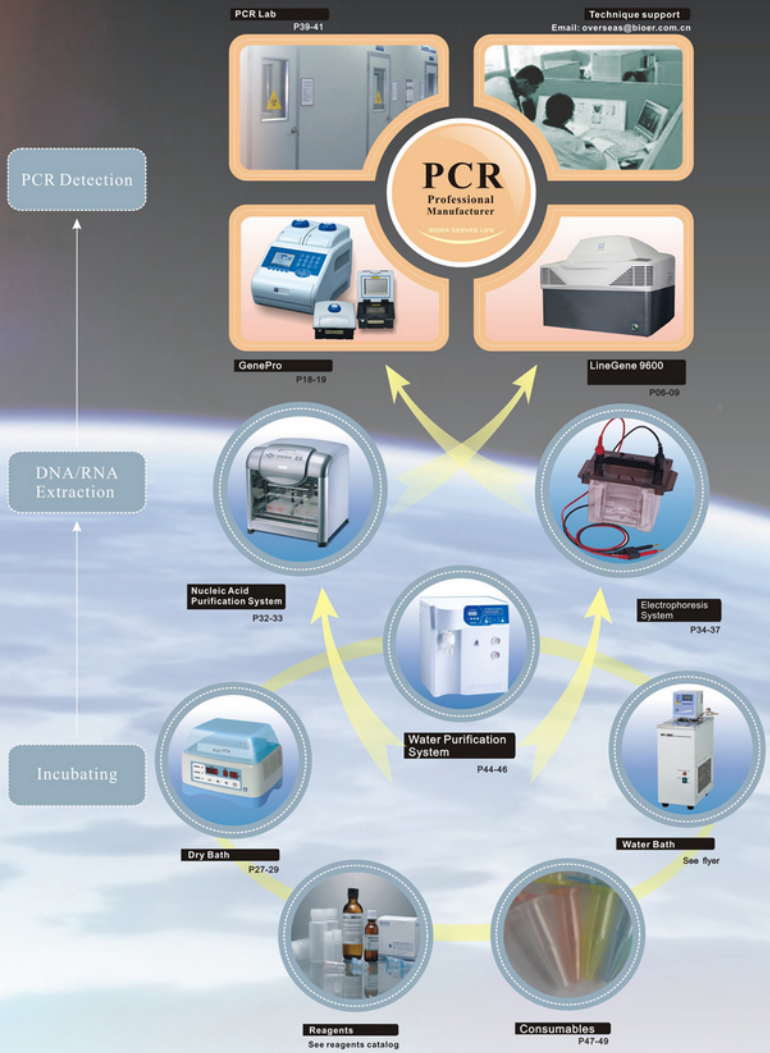
The VE-186 Mini Blotting Electrophoresis Cell provides rapid, high-quality blotting of mini gels. It modular electrode assembly transfers two 7.5×10 cm gels in just one hour. Cooling is provided by ice cooling unit, which absorbs heat generated during transfers.

VE-186



Specifications

Overall dimensions	16 × 12 × 18 cm
Maximum gel size	7.5 × 10 cm
Buffer requirements	450 ml
Gel capacity	2 × VE-180 gels


PCR Lab
P39-41
Technique support
Email: overseas@bioer.com.cn
PCR
Professional
Manufacturer
BIOER SERVES LIFE
PCR Detection
GenePro
P18-19
LineGene 9600
P06-09
DNA/RNA
Extraction
Nucleic Acid
Purification System
P32-33
Electrophoresis
System
P34-37
Water Purification
System
P44-46
Incubating
Dry Bath
P27-29
Water Bath
See flyer
Reagents
See reagents catalog
Consumables
P47-49