



THERMAL CYCLER BFA-1201

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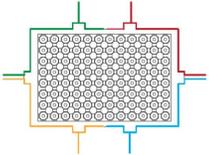
GENE AMPLIFICATION INSTRUMENT

The PCR instruments adopts Linux operating system, matched with 10.1-inch capacitive touch screen, with simple and smooth operation, accurate and fast data display; Front and rear air ducts allow instruments to be placed side by side, saving space; Zero evaporation technology, sealing 96 holes separately; Pressure rod type hot cover, close and tighten the cover in one step; Built in WIFI module, capable of monitoring the operation status from mobile phone; Using high-efficiency and long-life Peltier refrigeration chips, the temperature rise and fall speed is fast, saving valuable experimental time.

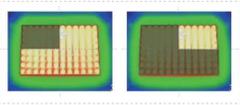
1. Remove edge effect temperature control technology

Four independent temperature control edge heating films are used, and the heat transfer plate is divided into four independent zones. Each zone can independently compensate for temperature deviation, effectively eliminating the edge effect problem of heat conduction in each zone. The temperature uniformity in each zone is excellent, and multiple built-in cooling chips and sensors are evenly distributed, making the program temperature control more Accurate.

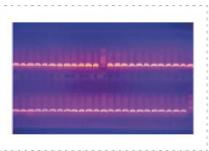
4-way independent temperature control



Edge effect removal technology

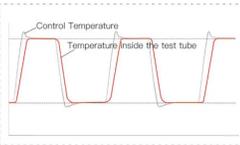


Amplification effect

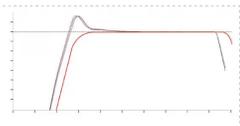


2. Ramp rate

Adopting high-efficiency and long-life Peltier refrigeration chips, with a maximum heating rate of 7.0 °C/s and a maximum cooling rate of 6.0 °C/s, saving valuable experimental time.



Maximum heating and cooling speed



Temperature balance



Gene amplification instrument

Adopting high-efficiency and long-life Peltier refrigeration chips, with a maximum heating rate of 7.0 °C/s and a maximum cooling rate of 6.0 °C/s, saving valuable experimental time.

The company's unique innovative pressure rod type hot cover component patented technology, elastic downward pressure locking linkage mechanism, and hot cover thermal conductivity design ensure that the reagents in each hole evaporate "zero" during the experiment.

Automatic power-off protection, automatically running unfinished programs after power restoration

The hot cover is made of silicone material with excellent sealing properties, and the hot cover is vertically pressed down to ensure that the reagents in each h

SPECIFICATIONS

Model	BFA-1201
U Disk function	Unlimited downloads on USB flash drive, instrument supports import and export
Types of consumables	0.2ml single tube, 8-Tube Strips
Communication Interface	1*LAN 1*RS232 2*USB
96 well plate	96 well plate (excluding Full skirt)
Wireless function	Supports WIFI connection
Refrigeration chip	Imported refrigeration chips
Air duct design	Front in bottom out air duct design to protect operators from burns
LCD	10.1-inch high-definition full-color touch LCD screen
System	Linux
Language	Bilingual in Chinese and English
Temperature function	
Block temp. control range	0~105°C
Temperature accuracy	±0.1°C
Maximum heating rate	7.0°C/s
Temp. Display Resolution	0.1°C
Maximum cooling rate	6.0°C/s
Temperature Control	Block/Sample temperature control
Temperature Uniformity	±0.2°C
Variable Temp. Rate	0.1~6.0°C/s
Hot Lid Function	
Hot Lid Temp. Range	30~110°C adjustable
Automatic lid closing function	Automatically close the hot cover when the block temperature drops below 20
Gradient function	
Gradient temp. repeatability	±0.1°C
Gradient temp. uniformity	±0.25°C
Gradient Temp. Accuracy	±0.5°C
Gradient Range	30°C~105°C
Temp. difference range	1°C~30°C
Gradient temp. point distribution	12 columns
Programming function	
Max. step	Up to 10 stages, max. 100 steps
Program Skip Feature	Yes
Max. number of cycles	Single cycle max. of 100, secondary nesting up to a max. of 10000, can do nested PCR experiment
Multi-user function	Realize multi person use without interfering with each other
Audit trail	Yes
Tm calculator	Yes, users only need to input the base sequence to calculate the melting temperature and annealing temperature, which improves work efficiency
Single step time range	1''~99'59'' or set infinite time
Time increasing/decreasing	1~1200s, can do Long PCR experiments
Temp. increase/decrease	0.1~20°C, can do Touchdown PCR
Low temperature insulation	Can be set for unlimited low-temperature insulation time
Power-off protection	Yes
Program pause function	Yes
Program Guide	Users only need to modify a few parameters to quickly experiment

Program import and export function	Files can be exchanged between instruments of the same type through USB drives
Other Parameters	
Wide voltage range	Global universal power supply 100~240V, 50/60Hz
Fuse	220V~6A or 110V~12A
Max. power	800W
Size (W x D x H)	273mm x 373mm x 264mm
Net weight	10kg
Alt Name	Gene Cyclor

FEATURES

Gene amplification instrument

Adopting high-efficiency and long-life Peltier refrigeration chips, with a maximum heating rate of 7.0 °C/s and a maximum cooling rate of 6.0 °C/s, saving valuable experimental time.

The company's unique innovative pressure rod type hot cover component patented technology, elastic downward pressure locking linkage mechanism, and hot cover thermal conductivity design ensure that the reagents in each hole evaporate "zero" during the experiment.

Automatic power-off protection, automatically running unfinished programs after power restoration

The hot cover is made of silicone material with excellent sealing properties, and the hot cover is vertically pressed down to ensure that the reagents in each hole evaporate "zero" during the experiment.

Equipped with memory function, one click quick running of the previous program, convenient and efficient.

Has incubation function and the incubation temperature range is 0~105 °C

Ultra large storage capacity, capable of storing up to 100000 programs inside the machine

Hot cover temperature and working mode can be set to meet different experimental needs

User login management, user password protection, ensuring data security

Built in WIFI module, capable of monitoring instrument operation status on mobile phones

USB interface, supports importing and exporting data, supports mouse control of instruments

Featuring a 12 column gradient function, it facilitates users to quickly optimize reaction conditions

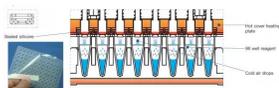
Equipped with a 10.1-inch display screen, it can run and view real-time operating status without connecting to a computer

Multi user functionality enables multiple users to use without interfering with each other, and can also manage users to ensure the security of experimental data

Supports saving program files in folders, making it convenient for users to manage program files.

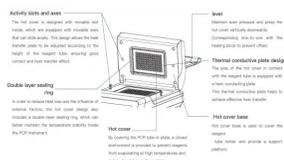
1. Zero "evaporation patent technology

The hot cover is made of soft silicone material with excellent sealing properties. With the hot cover vertically pressed down, the 96 holes are sealed one-to-one, ensuring that the reagents in each hole "zero" evaporate during the experiment.



2. Pressure Rod Patent Technology

The patented hot lid technology achieves vertical downward pressure, ensuring "zero" evaporation technology: the innovative hot lid elastic downward pressure locking linkage mechanism and hot lid thermal conductivity design ensure that the reagents in each hole do not evaporate during the experiment. The following is a specific description of this Technology:



APPLICATIONS

The application scope of gene amplifiers is very wide, in various fields such as medicine, forensic science, biological research, agriculture and animal husbandry, food safety testing, environmental monitoring, biotechnology, public health, pharmaceutical industry, and gene therapy. As an important experimental equipment, it plays an irreplaceable role in promoting the development and application of life sciences.



Forensic medicine



Clinical diagnosis



Biological research



Animal husbandry



Food safety



Environment detection



Public health



Pharmaceutical industry



Gene therapy



Agriculture



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