BioLAB

PRODUCT CATALOG

THERMAL CYCLER

CE ISO9001 CERTIFIED

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THERMAL CYCLER

Thermal Cyclers have become an essential tool for DNA amplification, and are considered by many as the workhorse of the laboratory. It provides outstanding performance in a compact and user friendly design. Better performance, efficiency and faster optimization makes it a perfect choice for any laboratory.
Used in Cloning, Sequencing, Animal Diagnostics, Analytical Laboratories, Research, Development, Food Science, Pharmaceutical, Life Science, Gene Expression, Gene Amplification..
Also known as Laboratory DNA Amplifier, Laboratory Thermocycler, Laboratory PCR Machine, DNA Amplifier, Thermocycler, PCR Machine.

BTHC-401 THERMAL CYCLER

Adjustable pressure hot lid, to preventvolatilizing and dewing

Hot lid with pressure alarm device, toprevent damaging test tube by too much pressure

Convenient and flexible module replacement mode

Innovative module wire socket designachieves module replacement without wire

The unique left-right design for amplication area and operating area makes operator more convenient and safer

SPECIFICATIONS

Model	BTHC-401
Temperature Range	0°C~99.9°C
Max.Heating Ramp Rate	4.0°C/s
Max.Cooling Ramp Rate	3.5°C/s
Block Formats	96x0.2 ml (A) / 54x0.5 ml (B) / 96x0.2 ml+77x05 ml (C) / 384well (D)
Display Interface	5.7'LCD
Heating/Cooling adjustable rate	0.1°C/s~4.0°C/s
Uniformity	≤±0.2°C(20~75°C)
Accuracy	≤±0.2°C
Hot Lid Temperature	30~115°C
Max.No.of Cycle	99
Communication	USB2.0 / RS 232 / RJ45
Temp Control Mode	Block, tube
Memory Capacity	200
Dimension (WxDxH)	380x270x250 mm
Weight	7.2 kg
Power Supply	85~264 V AC , 47~63 Hz

ACCESSORIES

Accessory Code	Name	Capacity
5201006007	Block A	64x0.2 ml

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
5201006006	Block B	36x0.5 ml

BTHC-409 THERMAL CYCLER

It uses advanced Peltier Technology

Reinforced aluminum module with anodizing technology can keep rapid heating-conducting property and have enough corrosion resistance

Scalable hot lid fits tubes of different heights

TFT color capacitive touch screen (5 inches, 800x480 pels), graphical menu navigation interface, very easy to operate

Built-in 11 standard program file template, can quickly edit the required files

Folder management, user can build directory

The running program and left time can be displayed in real time , allow to edit file when program is running

One-click quick incubation function can meet experiment's needs such as denaturation, enzyme cutting/enzyme-link and ELISA

While block temperature is lower than set temperature or program ends, the hot lid will be automatically closed

Automatic restart after power failure. When power is restored it can continue to run unfinished program

Support USB to store and copy PCR data, user can control PCR by USB mouse

Update software by USB and LAN

WiFi module built-in, one unit can control multiple PCR machine through computer or cell phone with internet connection

Support email-alert function when experiment is over

Mobile phone App available

SPECIFICATIONS

Model	BTHC-409
Sample Capacity	32x0.2 ml(4x8 layout)
Temperature Range	4~100℃
Temperature Increment/Decrement	0.1~10.0℃
Hold at 4℃	Forever
Max. ramp rate	0.1℃~5℃
Max Heating Rate	5℃
Max Cooling Rate	4℃
Display Interface	LCD, 5', 800x480, 65K color
Display Resolution	0.1℃
Uniformity	≤±0.2℃
Accuracy	≤±0.2℃
Gradient Temp Range	30℃~100℃
Gradient Spread	1~30℃
Hot Lid Temperature	30℃~110℃
Max.No.of Cycle	100

Max Program Steps	30
Communication	USB2.0 , WIFI
Tube	0.2 ml single tube, 8 strip
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec
Pause Function	Yes
Auto Data Protection	Yes
Dimension (WxDxH)	190x267x115 mm
Power	200 W
Weight	3.2 kg
Power Supply	100-240 V, 50-60 Hz

BTHC-410 THERMAL CYCLER

Energy efficient and portable
User friendly and has simple interface
High sensitivity as low as one copy
It has 2 channels SYBR / FAM, ROX / Texas Red
It is compatible with most commercial reagents

SPECIFICATIONS

Model	BTHC-410
Sample Capacity	16x0.2 ml(4x4 layout)
Temperature Range	4~100℃
Temperature Increment/Decrement	0.1~10.0℃
Hold at 4℃	Forever
Max. ramp rate	0.1℃~5℃
Max Heating Rate	5℃
Max Cooling Rate	4℃
Display Interface	LCD, 5', 800x480, 65K color
Display Resolution	0.1℃
Uniformity	≤±0.2℃
Accuracy	≤±0.2℃
Hot Lid Temperature	30℃~110℃
Max.No.of Cycle	100
Program Storage	10000+(USB Flash)
Max Program Steps	30
Communication	USB2.0 , WIFI
Tube	0.2 ml single tube
Temp Control Mode	Block, tube
Time Increment/Decrement	1 sec ~600 sec

Pause Function	Yes
Auto Data Protection	Yes
PC Operation system	Yes
Dimension (WxDxH)	190x267x115 mm
Power	120 W
Weight	3 kg
Power Supply	Ac 220 V, 50 Hz, 200 VA

BHTC-501 THERMAL CYCLER

Exquisite appearance, exquisite processing, clever heat dissipation design

Friendly man-machine interface, simple operation

Alarm function, alarm prompts for program completion and machine failure

USB mouse can be used to control the instrument, support U disk to update and upgrade software

SPECIFICATIONS

Model	BHTC-501
Sample capacity	96x0.2 ml
Temp. range	4~99.9 ℃
Single step time range	1-59 m 59 s, 0 is forever
Max. heating rate	4.5 ℃/s
Max. Cooling rate	4 ℃/s
Temp. uniformity	±0.25 ℃
Temp. accuracy	± 0.20 ℃
Temp. display resolution	0.1 ℃
Temp. control method	Block\Tube
Temp. change rate	0.1~5.0 ℃
Gradient temp. uniformity	±0.3 ℃
Gradient temp. accuracy	±0.3 ℃
Gradient Temp. range	30~99.9 ℃
Gradient setting range	0.1~30 ℃
Hot cover Temp. range	30~110 ℃
Hot lid height adjustment	Adjustable
Max. steps of the program	30
Program max. cycle numbers	99
Time increment / decrement	-599~599s
Temp. increase / decrement	-9.9~9.9 ℃
Program pause function	Yes
16℃ insulation	Forever
LCD screen	8 inches

Program storage quantity	> 100
Communication Interface	USB2.0 , LAN
Input power	AC220V , 50Hz
Fuse	250V, 8A ϕ5x20
Dimensions	W.390 x D.270 x H.255 mm
Net weight	8.5 kg

BHTC-502 THERMAL CYCLER

New and unique appearance, the interface operation is simple and convenient, ultra-light ultra-thin

Hot lid can be switched on and off, and test tube temperature control mode and module temperature control mode can be choose to meet more different experimental requirements

MP-16 mini PCR can be used in vehicles

Can be quickly upgraded via U disk, convenient for instrument software update

SPECIFICATIONS

Model	BHTC-502
Sample Capacity	16x0.2 ml
Temp. range	4~99.9 °C
Single step time range	1-59 m 59 s, 0 is forever
Max. heating rate	5°C/s
Max. Cooling rate	4 °C/s
Temp. uniformity	±0.25 °C
Temp. accuracy	± 0.20 °C
Temp. display resolution	0.1 °C
Temp. control method	Block\Tube
Hot cover temp. range	30~110 °C
Max. steps of the program	30
Program max. cycle nu	99
Time increment/decrement	-599 ~ +599 s
Temp. increase/decrease	-9.9 ~ +9.9 °C
Program pause function	Yes
16°C Insulation	Forever
LCD	5 inch, 800x480 Pixel
Program storage quantity	>100
Communication Interface	USB 2.0
Input power	12V 9.99A
Dimensions	W.200xD.230xH.85 mm
Net weight	3.2 kg

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