

THERMAL CYCLER



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 Research, Development, Food Science, Pharmaceutical, Life Science, Animal Diagnostics, Analytical Laboratories, Cloning, Sequencing, Gene Expression, Gene Amplification..

Also known as DNA Amplifier, Thermocycler, PCR Machine, Laboratory Thermocycler, Laboratory PCR Machine, Laboratory DNA Amplifier..

PCR41-099 THERMAL CYCLER

Adjustable pressure hot lid, to prevent volatilizing and dewing

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

Convenient and flexible module replacement mode

Innovative module wire socket design achieves module replacement without wire

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



SPECIFICATIONS

| | |
|---------------------------------|--|
| Model | PCR41-099 |
| 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 |
|----------------|---------|-----------|
| 5100905006 | Block A | 64x0.2 ml |

OPTIONAL ACCESSORIES

| Accessory Code | Name | Capacity |
|----------------|---------|-----------|
| 5100905005 | Block B | 36x0.5 ml |

PCR49-100C1 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 | PCR49-100C1 |
| Sample Capacity | 32x0.2 ml(4x8 layout) |
| Temperature Range | 4~100°C |
| Temperature Increment/Decrement | 0.1~10.0°C |
| Hold at 4°C | Forever |
| Max. ramp rate | 0.1°C~5°C |
| Max Heating Rate | 5°C |
| Max Cooling Rate | 4°C |
| Display Interface | LCD, 5', 800x480, 65K color |
| Display Resolution | 0.1°C |
| Uniformity | ≤±0.2°C |

| | |
|--------------------------|-----------------------------|
| Accuracy | ≤±0.2°C |
| Gradient Temp Range | 30°C~100°C |
| Gradient Spread | 1~30°C |
| Hot Lid Temperature | 30°C~110°C |
| 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 |

PCR49-100C2 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 | PCR49-100C2 |
| Sample Capacity | 16x0.2 ml(4x4 layout) |
| Temperature Range | 4~100°C |
| Temperature Increment/Decrement | 0.1~10.0°C |
| Hold at 4°C | Forever |
| Max. ramp rate | 0.1°C~5°C |
| Max Heating Rate | 5°C |
| Max Cooling Rate | 4°C |
| Display Interface | LCD, 5", 800x480, 65K color |
| Display Resolution | 0.1°C |
| Uniformity | ≤±0.2°C |
| Accuracy | ≤±0.2°C |
| Hot Lid Temperature | 30°C~110°C |
| 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 |

PCR4A-96 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 | PCR4A-96 |
| Sample capacity | 96x0.2 ml |
| Temp. range | 4~99.9 °C |
| Single step time range | 1-59 m 59 s, 0 is forever |
| Max. heating rate | 4.5 °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 |
| Temp. change rate | 0.1~5.0 °C |
| Gradient temp. uniformity | ±0.3 °C |
| Gradient temp. accuracy | ±0.3 °C |
| Gradient Temp. range | 30~99.9 °C |
| Gradient setting range | 0.1~30 °C |
| Hot cover Temp. range | 30~110 °C |
| 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 °C |
| Program pause function | Yes |
| 16°C 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 |

PCR4B-16 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 | PCR4B-16 |
| 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 |

LABSTAC

Labstac LLC

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA
Email: contact@labstac.com | Website: labstac.com