

# 96 WELL GRADIENT THERMAL CYCLER PCR16-096



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## PCR16-096

Engineered by finest quality and leading edge technology according to the advance technology and market norms under the direction of competent experts. Simple, intuitive programming, cost-efficient, fast setup and convenient to use makes it an ideal choice.

Used in Gene amplification, Gene Expression, Analytical Laboratories, Molecular biology, Research, Development, Food Science, Pharmaceutical, Life Science, Animal Diagnostics.

Also known as Gradient PCR Thermocycler, Gradient PCR Machine, Laboratory Gradient PCR Thermal Cycler, Laboratory Gradient PCR Thermocycler.

## PCR16-096 96 WELL GRADIENT THERMAL CYCLER

6 long service life Peltier heating units and form 3 circuits to control 3 temperature zones

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

High heating and cooling rate, max. Ramping rate 4.5 °/s, can save your precious time

3 blocks independently controlled and can run 3 different PCR programs simultaneously

Stepless adjustable hot lid with pressure-protection, fit tubes of different heights to avoid tube melt and evaporation

Windows interface, 8" ( 800x600, 16 colors) TFT color touch-screen with graphical display provides easy use for setting up and monitoring

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

Internal flash memory for 10000 typical PCR files in free configurable folders

Hot lid temperature and hot lid work mode can be set to meet different experiment's need

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

GLP report records every step to provide accurate data support for experiment result analysis

User Login Management, three-tier permission, password protection function to ensure data security

Compatible with devices such as Mouse and Keyboard and capable to transfer data and perform software updates via USB Drive

Support USB and LAN to update software

One computer can control many sets of PCR via network connection

Min type Bluetooth printer as an option, easily record information

Support email-alert function when experiment is over



## SPECIFICATIONS

|                                 |  |
|---------------------------------|--|
| Model                           | PCR16-096  |
| Sample Capacity                 | 96×0.2 ml (6 independent 16 well block)  |
| Temperature Range               | 4°C~100°C  |
| Temperature Increment/Decrement | 0.1~10.0°C   |
| Hold at 4°C                     | Forever  |
| Max. ramp rate                  | 0.1°C~6°C  |
| Max Heating Rate                | 6°C / s  |
| Max Cooling Rate                | 4°C / s  |
| Display Interface               | LCD, 8', 800×600, TFT  |
| Display Resolution              | 0.1°C  |
| Uniformity                      | ≤±0.3°C  |
| Accuracy                        | ≤±0.2°C  |
| Gradient Temp Range             | 30°C~100°C   |
| Gradient Spread                 | Temperature difference of adjacent temperature zone is 0.1-5°C. 6 temperature zones in total |
| Hot Lid Temperature             | 30°C~110°C   |
| Height of hot Lid               | Stepless Adjustable  |
| Max.No.of Cycle                 | 100  |
| Program Storage                 | 10000+(USB Flash)  |
| Max Program Steps               | 30   |
| Communication                   | USB2.0 , LAN   |
| Temp Control Mode               | Block, tube  |
| Time Increment/Decrement        | 1 sec ~600 sec   |
| Pause Function                  | Yes  |
| Auto Data Protection            | Yes  |
| Dimension (W×D×H)               | 270x390x255 mm   |
| Power                           | 600 W  |
| Weight                          | 9 kg   |
| Power Supply                    | 85~264 V AC , 47~63 Hz   |



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