



# 384 WELL GRADIENT THERMAL CYCLER BTHC-114



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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 Molecular biology, Research, Development, Gene amplification, Gene Expression, Analytical Laboratories, 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.

## BTHC-114 384 WELL GRADIENT THERMAL CYCLER

8 pcs long service life Peltier heating units and form 4 circuits to control 4 temperature zones and allow double block gradient function

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 5 °/s, can save your precious time

Two blocks independently controlled and can run 2 different PCR programs simultaneously

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

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

Support email-alert function when experiment is over

## SPECIFICATIONS

Model	BTHC-114
Sample Capacity	384 well
Temperature Range	0°C~99.9°C
Temperature Increment/Decrement	0.1~10.0°C
Hold at 4°C	Forever

Max. ramp rate	0.1°C~2.5°C
Max Heating Rate	4.5°C
Max Cooling Rate	4°C / s
Display Interface	LCD, 8',800x600
Display Resolution	0.1°C
Uniformity	±0.3°C
Accuracy	±0.2°C
Thermal Gradient Accuracy	±0.3°C
Gradient Spread	1~30°C
Gradient Uniformity	±0.2°C
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 (WxDxH)	270x390x255 mm
Power	600 W
Weight	9 kg
Power Supply	85~264 V AC , 47~63 Hz



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