

# PCR / Gradient PCR

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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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## PCR / Gradient PCR (Thermal Cycler)



This series product adopts 8 pieces custom-made US Marlow peltier, Max. ramping rate 5°C, cycle times > 600000. More advance technologies applied on the product: windows operating system; color touch-screen; double blocks can run independently; replaceable block; control by PCfunction; print function; extra large data storage and USB interface. All the above function make it demand high need.

### Key features:

- 1) 96 well gradient thermal cycler with block.
- 2) Each thermal block has 4 independent temperature control sensors and 8 peltier heating units to ensure accurate and uniform temperature across block surface, and provide users with replicating previous condition set-up.
- 3) Capability to set temperature in a gradient.
- 4) 8" TFT color touch-screen with graphical display provides easy use for setting up and monitoring.
- 5) 96 well plates concentrator rotor to be used for 96 well PCR plate and deep well plates (27mm high).
- 6) The actual and target temperatures can be viewed and displayed graphically in real time.
- 7) Built-in 11 standard program file template, can quickly edit the required files.
- 8) Built in library of standard protocols for PCR
- 9) Internal flash memory for 10000 typical PCR files in free configurable folders.
- 10) It can Identify hold time (for all 8 row gradient).
- 11) Automatic restart after power failure and have power save mode.
- 12) Quick boot up time
- 13) Peltier heating and Cooling System
- 14) 3KVA Online UPS with four hour Power bak-up.
- 15) USB data Port and Print Port .

## Specification

Model	GE3961G/3602G/3485G/ 3483G/3384G Gradient
Capacity	1 x 96-well plate and 96 x 0.2 ml PCR Tubes
Temp. range	0 ~ 100°C
Temperature Control Range	0-100°C
Max. heating rate	5°C/s
Max. cooling rate	4°C/s
Temperature Uniformity	±0.2°C
Accuracy	≤+0.1°C
Display resolution	0.1°C
Temp. control	Block/Tube
Ramping rate Adjustable	0.1 ~ 5°C
Gradient Uniformity	≤± 0.2°C
Gradient Accuracy	≤± 0.2°C
Gradient Temp. range	3~100°C
Gradient Spread	1~30°C
Hot lid temp.	30~110°C
Hot lid height adjustable	stepless adjustable
Number of programs	10000 +(USB FLASH)
Max. no. of step	30
Max. no. of cycle	77
Time increment/decrement	1 sec ~ 9 min 59 sec
Temp increment/decrement	0.1 ~ 9.9°C
Pause function	Yes
Auto data protection	Yes
Hold at 4°C	Forever
Print	Yes
LAN to computer	Yes
LCD	8inch, 800 x 600 pixels, TFT
Communication	USB 2.0, LAN
Dimensions	380mm x 240mm x 260mm (L x W x H)
Weight	8.5kg
Lower Power Consumption	500 W
Block Variable Sizes(for 0.2 ml, or 0.5 ml tubes)	
Quick and Easy Protocol Programming 0.1-5°C	

## Regulatory compliances



## Corporate Social Responsibility



Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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