



OVERVIEW

Gradient Thermal Cycler is an advanced molecular biology tool with Peltier based technology that independently controls deviation in thermal cycles. It is an automated system with a double gradient block that allows execution of two different PCR program simultaneously. It is featured with an email-alert function that notifies the user on termination of a program

TECHNICAL SPECIFICATIONS:-

- PCR Type: Gradient
- Capacity: Double 48×0.2ml
- Temperature Range: 0°C ~100°C
- Heating Rate: 5°C /s
- Cooling Rate: 4°C /s
- Uniformity: $\leq \pm 0.2^\circ\text{C}$
- Accuracy: $\leq \pm 0.1^\circ\text{C}$
- Display Resolution: 0.1°C
- Temperature Control: Block\Tube
- Ramping Rate Adjustable: 0.1°C ~5°C
- Gradient Uniformity: $\leq \pm 0.2^\circ\text{C}$
- Gradient Accuracy: $\leq \pm 0.2^\circ\text{C}$
- Gradient Temperature Range: 30°C ~100°C
- Hot Lid Temperature: 30°C ~110°C
- Maximum no. of steps: 30

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Maximum no. of cycles: 100
- Time Increment/Decrement: 1 sec ~600 sec
- Temperature Increment/Decrement: 0.1-10.0°C
- Hold at: 4°C constant
- Power Supply: 85 V ~264V AC, 47Hz~63Hz, 600W
- Overall Dimensions (L×W×H): 390×270×255 mm
- Net weight: 9kg

Features :

- >TFT colour touchscreen with graphical representation allows access for setting up and monitoring of thermal cycles
- >Provides good resistance to corrosive chemicals
- >High ramping rate allows quick heating and cooling of thermal blocks
- >Equipped with stepless adjustable hot lid with pressure protection
- >Reinforced aluminium module engineered with anodizing technology provides rapid heating-conducting property
- >Internal Large memory of about 10000 PCR files with configurable folders
- >Large data storage capacity with USB2.0 and LAN interface to obtain connectivity with PC, software and printer
- >Preliminary Incubation step executes denaturation of test sample that doesn't require prior sample preparation
- >Automatic restart function post power failure
- >User login is secured with password to disallow unauthorized access to the system
- >Programmed with email-alert function on termination of thermal cycles

Applications :

It is used for crucial analysis and optimization of PCR protocols with variable temperature settings for denaturation or elongation step. It has wide applications in fields of clinical, haematology, healthcare, pharmaceutical, and microbiological etc. Also, it is utilized in research and development sectors for genomics and proteomics studies

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