

# GRADIENT THERMAL CYCLER



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## ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

## GRADIENT THERMAL CYCLER

Experience cutting-edge precision and efficiency with the IG-96GEP Gradient Thermal Cycler, designed for seamless DNA amplification in your laboratory. This advanced device is equipped with the latest semiconductor technology, ensuring superior temperature uniformity and rapid cycling rates.



## KEY FEATURES:

- **Innovative Design:** The IG-96GEP boasts a sleek, user-friendly interface with a compact size, making it an ideal addition to any lab setting.
- **Rapid Temperature Control:** Experience unparalleled heating and cooling rates of up to 4°C/s, ensuring your PCR reactions are both swift and accurate.
- **High-Definition Touch Screen:** Navigate through the intuitive interface with ease, using the 7-inch TFT high-definition full-touch colour screen for quick file editing and real-time temperature curve visualization.
- **Data Security and Management:** User login, rights management, and password protection ensure data integrity, while the device can store up to 1000 files for convenient access.
- **Customizable Hot Lid:** The unique heating lid design accommodates varying tube heights, with adjustable temperature settings to meet diverse experimental needs.
- **Gradient Functionality:** Optimize your PCR conditions effortlessly with the built-in gradient calculator, offering accurate annealing temperatures across different samples.
- **Real-Time Monitoring:** Track the gradient temperature distribution and sample temperature in real time, giving you complete control over your experiments.
- **Precision Temperature Control:** The device ensures temperature uniformity within  $\pm 0.25^{\circ}\text{C}$  and offers a temperature accuracy of  $\pm 0.20^{\circ}\text{C}$ , providing precise and reliable thermal control for PCR applications.

Specifications	Parameters
Model	IG-96GEP
Temp. range	4~99.9°C
Sample capacity	96x0.2ml
Max. heating rate	4.5°C/s
Maxi.cooling rate	3.5 °C/s
Temp.uniformity	±0.25°C
Temp. accuracy	±0.20°C
Temp.display resolution	0.1°C
Temp. control method	Block/Tube
Gradient temp. uniformity	±0.3°C
Gradient temp.accuracy	±0.3°C
Gradient temp.range	30-99.9°C
Gradient temp.difference range	0.1-30°C
Single step time range	1~59m59s(0 is forever)
Hot cover temp. range	30-110°C
Max. steps of the program	30
Program max. cycle number	99
Time increment/decrement	-599~+599s
Temp. increment/decrement	-9.9~+9.9°C
Program pause function	Yes
16°C Insulation	Forever
LCD	7 inches,800×480 Pixel
Program storage quantity	1000
Communication Interface	USB 2.0(extension)
Power supply	100-240V AC 6.6-3.1A 50/60Hz
Dimensions(mm)	W.185 × D.280 × H.160
Net weight	3.2kgs



**iGENE LABSERVE®**  
Innovative • Interactive • Intuitive



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