

thermal cycler

MULTIGENE™ OPTIMAX

The new MultiGene™ OptiMax brings new speed and advanced features, providing premium performance at an affordable price. This simple to program unit is compact in design and is built to perform. Programming is intuitive using the large display and multiple pre-programmed templates supplied. The OptiMax comes with standard built in 2-step, temperature optimization, touchdown and time increment protocols that are easy to adjust to meet cycling requirements. Lid temperature can be either turned down or off depending on user needs. The faster ramp rates allow more work to be done in a work day. OptiMax employs a new protocol optimisation process improving on older gradient features. The OptiMax utilises FlexTemp™ technology that effectively separates the 96 well plate into 6 – (4 x 4) temperature regions that allow the temperatures to be selected to test against. These regions are easily identified by the blue and black squares visible on the microplate platen. Instead of having the thermal cycler choose temperatures, the user can choose any temperatures they want within a 24°C range.

MultiGene™ OptiMax has fast heating rates of 5°C/sec and cooling at 3.5°C/sec. Overshooting and undershooting have been minimised so that reactions only see the temperatures they are supposed to see. (See figure) This also leads to faster runs time.



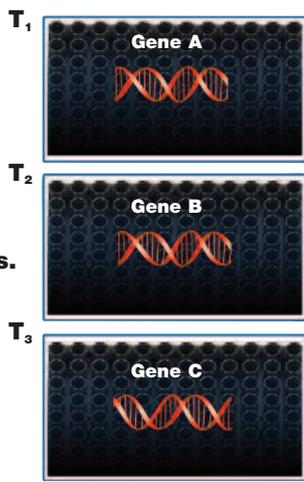
NEW



- UNIQUE FLEXIBLE PROGRAMMING WITH FLEXTEMP™ TECHNOLOGY
- FAST RAMP RATES 5°C HEATING/ 3.5°C COOLING
- IMPROVED WORKFLOW OVER TRADITIONAL GRADIENT CYCLERS
- SIMPLE USER INTERFACE
- NO CONDENSATION AFTER OVERNIGHT COOLING AT 4°C
- 3 YEAR WARRANTY

Technical Specifications

SAMPLE CAPACITY	1 x 96 WELL PLATE, 12x 8x0.2ML STRIPTUBES, 96 x 0.2ML TUBES
PROGRAMMABLE TEMPERATURE RANGE	4°C TO 99.9°C
TEMPERATURE CONTROL	CALCULATED OR BLOCK
TEMPERATURE ACCURACY/UNIFORMITY	±0.5°C/±0.5°C
HEATING/COOLING METHOD	PELLIER
GRADIENT TEMPERATURE RANGE	30°C TO 99°C. TEMPERATURE OF 6-SEGMENT BLOCKS CAN BE SET INDEPENDENTLY
MAXIMUM TEMPERATURE DIFFERENCE BETWEEN 6-SEGMENT TEMP. BLOCKS	24°C
6-SEGMENT TEMPERATURE BLOCKS	6 TEMPERATURE BLOCKS IN 4 x 4 WELL FORMAT
PROGRAMMABLE LID TEMPERATURE	60° TO 65°C, 100° TO 115°C
PROGRAM MEMORY	200 COMPLETE PROGRAMS
TEMP. INCREMENTS/DECREMENTS	YES
TIME INCREMENTS/DECREMENTS	YES
USER PROGRAM FOLDERS	50 SETS
PASSWORD PROTECTED PROGRAMS	YES
COMMUNICATION	USB AND RS232 PORTS
DIMENSIONS (W x D x H),	24 x 42 x 25 CM,
WEIGHT	9 KG
ELECTRICAL	240V OR 120V, 50/60HZ

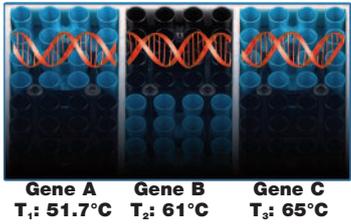


Simplified Workflow – Improved Throughput

MultiGene OptiMax may be programmed to operate between one and six different annealing temperatures of user choice, across the block.

- Improved Throughput by reducing time
- Simplified Workflow by reducing steps

Figure 1. Primers designed to anneal to various genes (e.g. Gene A, B, and C) typically have different annealing temperatures (T₁, T₂, and T₃). To simplify workflow and increase throughput the MultiGene OptiMax can perform up to six different reactions, significantly reducing steps and time.



Intuitive User Interface

MultiGene™ OptiMax utilises an intuitive user interface. This user interface is friendly to the laboratory environment and consistent with what users of MultiGene™ enjoyed in earlier models. It can be used with lab gloves even if wet. The ramping speed and eliminated overshooting and undershooting which contributes to longer run times, have been improved.



Fully Adjustable Heated Lid

OptiMax's heated lid is fully adjustable to provide optimum pressure for use with a broad range of tubes and microplates. For optimum performance, the lid can also be programmed to hold different temperatures between 60° to 65°C and 100° to 115°C. The OptiMax lid prevents condensation and slides away and back from the user to provide full access to samples and reduce the risk of coming in contact with a hot surface.



NEW PC Viewer Option

By downloading the software and attaching a USB cable to a Windows PC, the real time temperature profiles can be viewed as they are occurring, to allow monitoring of your system.

ORDERING INFORMATION

BCMGO MultiGene Optimax Thermal Cycler with 96 well block, 230V, for 96 x 0.2ml tubes or 1 x 96 well plate (other block formats available)