

extremely simple to program,
compact in design and built to
perform.

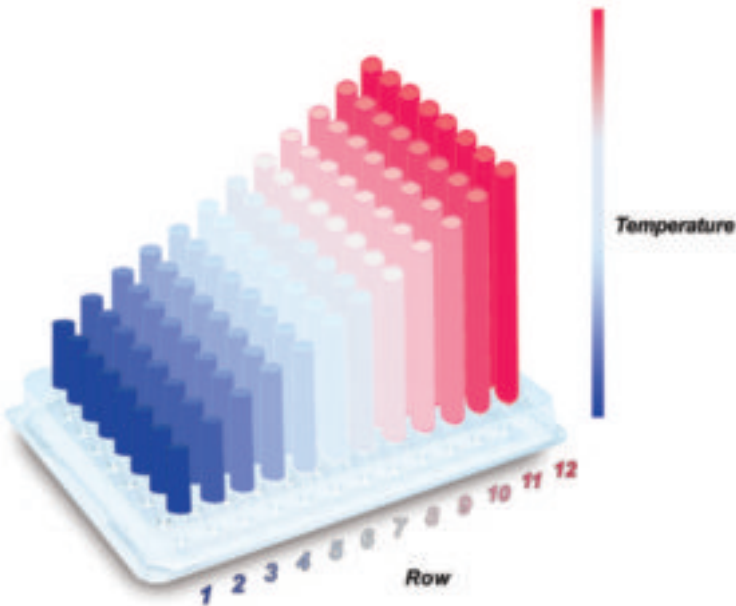
MaxyGene™ Gradient Thermal cycler

makes gradient technology affordable and provides consistent, reliable results. MaxyGene features Precision Thermal Control, with rapid heating and cooling of the precision machined sample block, by six Peltier modules. A sophisticated algorithm program calculates sample temperature and triggers heating and cooling accordingly, minimizing over- and under-shoot.

- > Ramping rates up to 3°/sec
- > 12 step gradient for fast optimization
- > Easy to use software, features graphical interface
- > Adjustable heated lid accommodates strips, tubes and plates
- > Pre-programmed standard protocols
- > 2-year warranty

Gradient Capability

The MaxyGene Gradient block can be programmed to operate with uniform temperature across the block for consistent results, or with a temperature gradient for protocol optimization. The MaxyGene's gradient is spread horizontally allowing twelve temperatures to be evaluated simultaneously. To program a gradient, the high and low temperatures are set, and the software automatically calculates and displays the temperature in each row. A maximum spread of 24°C can be set up across the block.



SLIDING, ADJUSTABLE HEATED LID

THE HEATED LID, A STANDARD FEATURE OF THE MAXYGENE GRADIENT, IS FULLY ADJUSTABLE TO PROVIDE THE APPROPRIATE PRESSURE FOR USE WITH DIFFERENT HEIGHT TUBES AS WELL AS MULTIWELL PLATES. A COMPRESSION MAT IS PROVIDED TO ENSURE AN EVEN PRESSURE IS APPLIED WHEN USING PLATES.

FOR OPTIMUM PERFORMANCE, THE TEMPERATURE OF THE LID MAY BE PROGRAMMED. TO ENSURE THAT USERS NEVER COME IN CONTACT WITH THE HOT SURFACE, THE LID SLIDES BACK AND AWAY FROM THE SAMPLES. IN ADDITION TO ELIMINATING THE RISK OF BURNS, THIS ALSO PROVIDES COMPLETE ACCESS TO SAMPLES. THE LID CAN ALSO BE FLIPPED UP FOR CLEANING.

REMOVABLE BLOCK

THE STANDARD 96 WELL FORMAT BLOCK SUPPLIED WITH THE MAXYGENE GRADIENT IS EASILY REMOVED AND REPLACED. THIS OFFERS THE USER THE FLEXIBILITY TO CHANGE BLOCK FORMATS WITHOUT CHANGING CYCLERS.

EASY PROGRAMMING

PROGRAMMING THE MAXYGENE GRADIENT IS HIGHLY INTUITIVE. THE LARGE, BACKLIT LCD DISPLAYS ALPHANUMERIC CHARACTERS AND A GRAPHICAL REPRESENTATION OF PROGRAM STEPS. SIMPLE, ON-SCREEN INSTRUCTIONS GUIDE THE USER THROUGH THE PROGRAMMING PROCESS.

THE MAXYGENE GRADIENT IS PROVIDED WITH COMMON PRE-PROGRAMMED PROTOCOLS WHICH ARE EASILY EDITED BY NAVIGATING TO THE APPROPRIATE PARAMETER WITH THE ARROW KEYS AND ENTERING A NEW VALUE.

A MAXIMUM OF 100 PROGRAMS MAY BE STORED IN THE SYSTEM MEMORY AND ORGANIZED IN PUBLIC FOLDERS OR USER FOLDERS, WHICH CAN BE PASSWORD PROTECTED.

A variety of applications can be performed with the MaxyGene Gradient, from single temperature soaks to sophisticated multistep programs. All of these are easily set up. Time or temperature of a cycling step can be automatically increased or decreased during successive cycles. This is useful for "touchdown" applications and for extending annealing times as enzyme is depleted. Programs may also be paused while running. During operation, actual times and temperatures are displayed. Estimated run times are automatically calculated and a log of the last run can be displayed or downloaded to a printer or PC.