

# AXYGEN

#### **SPECIFICATIONS**

#### SAMPLE CAPACITY

- PROGRAMMABLE TEMP, RANGE TEMPERATURE CONTROL TEMP. ACCURACY/UNIFORMITY HEATING/COOLING METHOD MAX. HEATING/COOLING RATE **GRADIENT TEMPERATURE RANGE** MAX. GRADIENT TEMP. DIFFERENCE **GRADIENT CAPABILITY**
- 12 8 X 0.2 ML STRIP TUBES 96 X 0.2 ML TUBES 4°C TO 99.9°C CALCULATED OR BLOCK ±0.5°C/±0.5°C **PFI TIFR** 3°C/2°C PER SECOND 30°C TO 99°C 24°C 12 ROWS (HORIZONTAL)

1 X 96 WELL PLATE

PROGRAMMABLE LID TEMPERATURE PROGRAM MEMORY TEMP. INCREMENTS/DECREMENTS TIME INCREMENTS/DECREMENTS USER PROGRAM FOLDERS PASSWORD PROTECTED PROGRAMS COMMUNICATION DIMENSIONS (W X D X H) WEIGHT ELECTRICAL

60° TO 65°C, 100° TO 115°C
100 COMPLETE PROGRAMS
YES
YES
YES
YES
USB AND RS232 PORTS
24 X 42 X 25 CM
9 KG
120V OR 240V, 50/60 HZ

#### ORDERING INFORMATIO

CAT. NO.	DESCRIPTION
THERM-1001	MAXYGENE GRADIENT THERMAL CYCLER WITH 96 WELL BLOCK, 110V*
THERM-1000	MAXYGENE GRADIENT THERMAL CYCLER WITH 96 WELL BLOCK, 230V*
PCR-96-C	96 WELL PLATE, POLYPROPYLENE, NO SKIRT
PCR-96M2-HS-C	96 WELL PLATE, POLYPROPYLENE, ELEVATED SKIRT
PCR-96-MB-C	96 WELL PLATE, POLYPROPYLENE, ELEVATED SKIRT, CHIMNEY
PCR-96-AB-C	96 WELL PLATE, POLYPROPYLENE, ELEVATED SKIRT
CM-FLAT	SILICONE COMPRESSION MAT
PCR-TS	CYCLERSEAL SEALING FILM FOR 96 WELL PLATES
PCR-TS-900	HIGH TEMPERATURE SEALING FILM FOR 96 WELL PLATES
UC-500	ULTRA CLEAR PRESSURE SENSITIVE SEALING FILM
PCR-AS-200	ALUMINUM SEALING FILM FOR 96 WELL PLATES
PCR-0208-C	0.2 ML THIN WALL PCR TUBE , 8 TUBES PER STRIP
PCR-02CP-C	THIN WALL PCR TUBE CAPS, 8 CAPS PER STRIP
PCR-02-C	0.2 ML TUBES WITH FLAT CAPS, CLEAR
PCR-02D-C	0.2 ML TUBES WITH DOMED CAPS, CLEAR

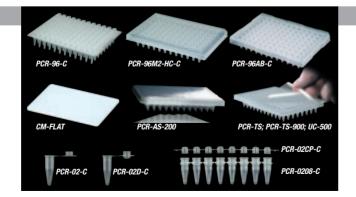
\*Other block formats available. Contact your Axygen dealer for details.

#### MULTIPLE CONSUMABLE OPTIONS

WELL SPACING IN THE MAXYGENE GRADIENT'S BLOCK IS COMPATIBLE WITH BOTH THIN WALLED THERMAL CYCLING PLATES AND 0.2 ML STRIP TUBES. FOR BEST FIT AND PERFORMANCE, THE USE OF AXYGEN THIN WALLED POLYPROPYLENE PLATES AND TUBES IS RECOMMENDED. INDIVIDUAL 0.2 ML TUBES MAY ALSO BE USED.



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### cualicy. precision AFFordable.

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#### PACKAGING 1

10 PLATES/PACK, 5 PACKS/CASE 10 PLATES/PACK, 5 PACKS/CASE 10 PLATES/PACK, 5 PACKS/CASE 10 PLATES/PACK, 5 PACKS/CASE 10 MATS/PACK, 5 PACKS/CASE 100 FILMS/BOX, 5 BOXES/CASE 100 FILMS/BOX, 5 BOXES/CASE 100 FILMS/BOX, 5 BOXES/CASE 100 FILMS/BOX, 5 BOXES/CASE 125 STRIPS/PACK, 10 PACKS/CASE 125 STRIPS/PACK, 10 PACKS/CASE 1.000 TUBES/PACK, 10 PACKS/CASE 1,000 TUBES/PACK, 10 PACKS/CASE

MAXYGENE gradient thermal cycler

#### INNOVATION S INTEGRITY



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

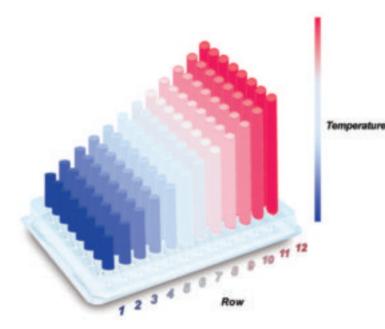
## Maxygene™ gradient Thermal cycler

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.





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.



#### 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.

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.