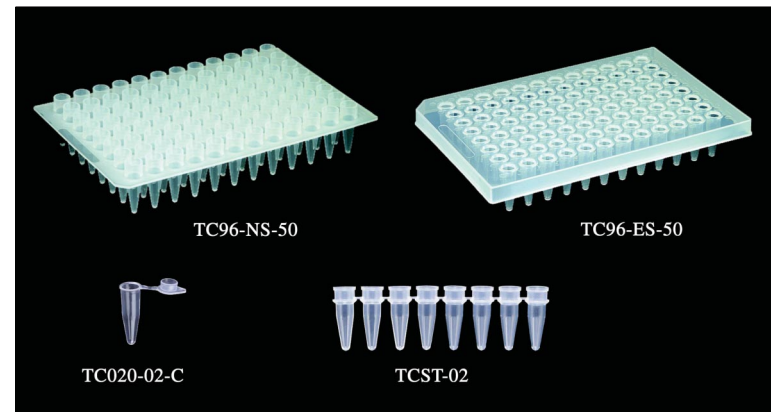


## MultiGene Gradient Consumables

To achieve the best performance, the use of these high quality, thin walled, polypropylene tubes and plates is recommended for use with the MultiGene Gradient.



### Specifications

Sample Capacity	1 x 96 well plate 12 8 x 0.2 ml strip tubes 96 x 0.2 ml tubes	Programmable lid temperature	60° to 65°C, 100° to 115°C
Programmable temp. range	4°C to 99.9 °C	Program memory	100 complete programs
Temperature control	Calculated or block	Temp. increments/decrements	Yes
Temp. accuracy/uniformity	±0.5°C/±0.5°C	Time increments/decrements	Yes
Heating/cooling method	Peltier	User program folders	Yes
Max. heating/cooling rate	3°C/2°C per second	Password protected programs	Yes
Gradient temperature range	30°C to 99°C	Communication	USB and RS232 ports
Max. gradient temp. difference	24°C	Dimensions (W x D x H)	24 x 42 x 25 cm
Gradient capability	12 rows (horizontal)	Weight	9 kg
		Electrical	120V or 240V, 50/60 Hz

### Ordering information

Cat. No.	Description
TC9600-G	MultiGene Gradient Thermal Cycler with 96 well block, 120V*
TC9600-G-230V	MultiGene Gradient Thermal Cycler with 96 well block, 240V*
TC96-NS-50	96 well plate, polypropylene, no skirt, pack of 100
TC96-ES-50	96 well plate, polypropylene, elevated skirt, pack of 50
TCST-02	0.2 ml tube strips, 8 tubes per strip, 125 strips
TCSC-02	Caps for above strips, 8 caps per strip, 125 strips
TC020-02-C	0.2 ml tubes with domed caps, clear, pack of 1,000
TC020-02-A	0.2 ml tubes with domed caps, assorted colors, pack of 1,000
TC96-CM-10	Compression mat, silicone, pack of 10
TC96-TT	Thermal sealing tape for 96 well plates, pack of 100 films
TC96-AS-100	Aluminum sealing tape for 96 well plates, pack of 100 films

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

Also available from Labnet International

### MultiGene™ II Personal Thermal Cycler

- Compact design
- 25 x 0.2 ml or 16 x 0.5 ml block
- Intuitive programming
- Reliable performance



**Labnet**  
Labnet International, Inc.

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## MULTIGENE™ GRADIENT THERMAL CYCLER

QUALITY RESULTS - FAST, EASY AND AFFORDABLE



- PRECISION THERMAL CONTROL
- SIMPLE, USER-FRIENDLY PROGRAMMING
- GRADIENT CAPABILITY

# MultiGene™ Gradient Thermal Cycler

Labnet's MultiGene Gradient Thermal Cycler produces consistent, reliable results while making gradient technology affordable. This unit is extremely simple to program, compact in design and built to perform.

## Precision Thermal Control

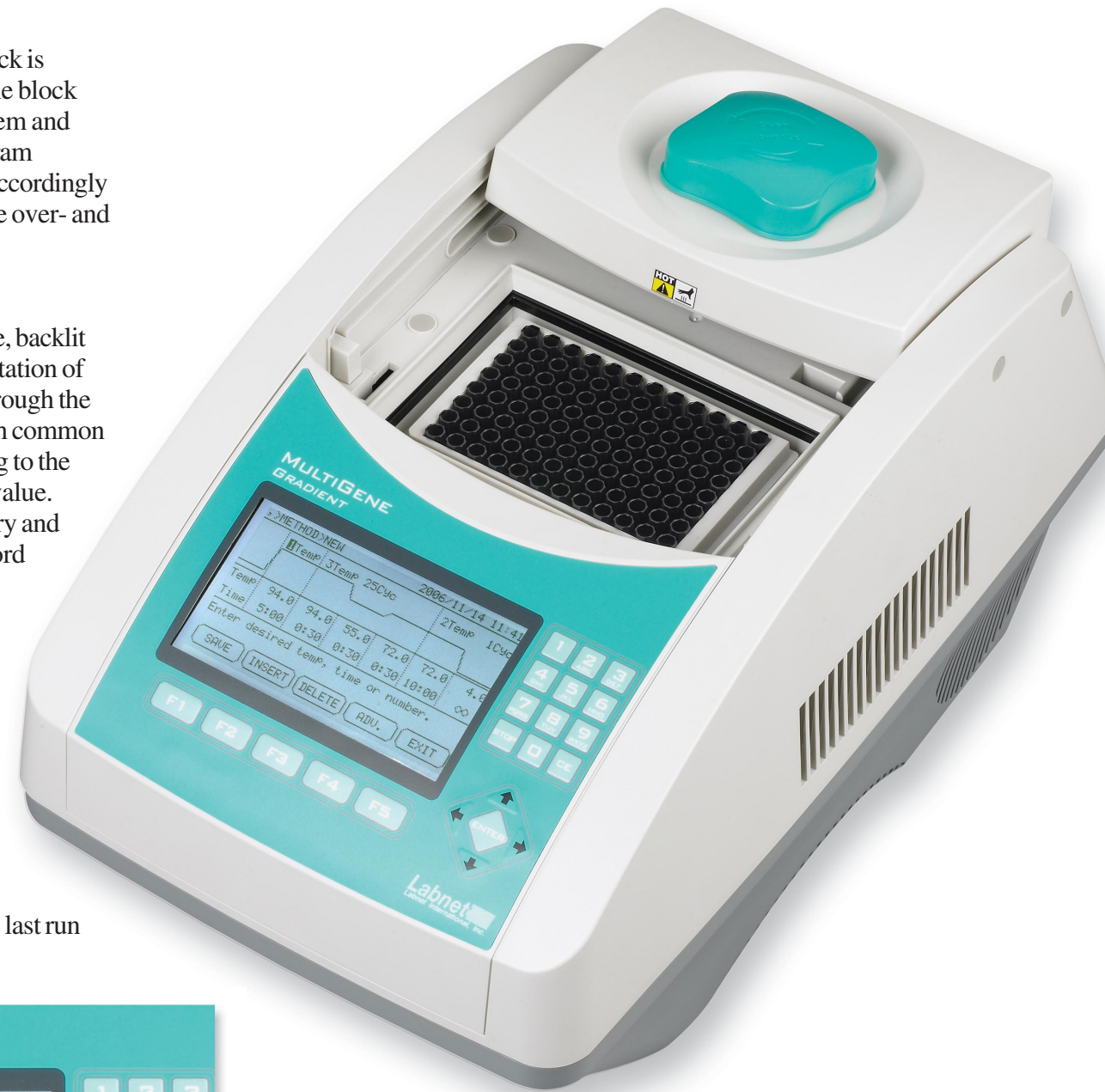
Rapid heating and cooling of the precision machined sample block is achieved by six Peltier modules. Temperature sensors across the block feed data to the microprocessor to control operation of the system and ensure accuracy and uniformity. A sophisticated algorithm program calculates sample temperature and triggers heating and cooling accordingly to provide quick temperature change in the sample and minimize over- and undershoot.

## Easy Programming

Programming the MultiGene Gradient is very 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 MultiGene 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 99 programs may be stored in the system memory and organized in public folders or user folders, which can be password protected.

## Programming Features

A variety of applications can be performed with the MultiGene 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 "touch-down" applications and 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.



## Gradient Capability

The MultiGene 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 MultiGene's gradient is spread horizontally allowing twelve temperatures to be evaluated simultaneously. To program a gradient, the high and low temperature 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 MultiGene Gradient, is fully adjustable to provide the proper pressure for use with different height tubes as well as plates. A compression mat is provided to ensure even pressure when using plates. For optimum performance, 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 MultiGene Gradient is easily removed and replaced. This gives the user the flexibility to change block formats without changing cyclers.

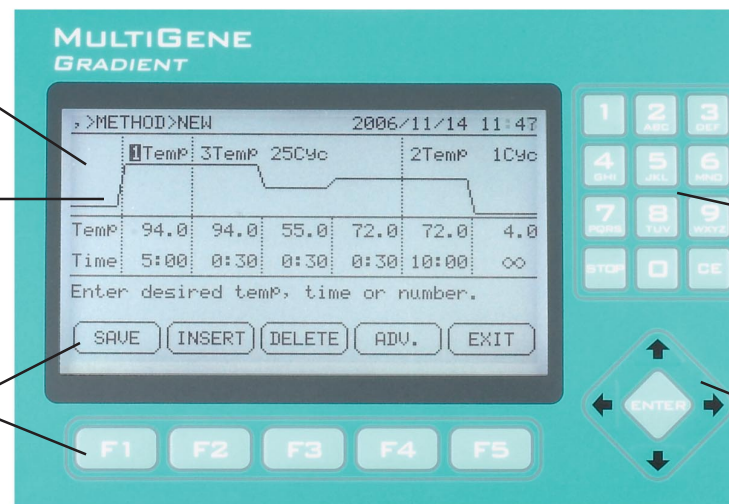
## Multiple Consumable Options

Well spacing in the MultiGene 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 Labnet thin walled polypropylene plates and tubes is recommended. Individual 0.2 ml tubes may also be used.

Large, backlit LCD with detailed program information

Graphical representation of program steps

Function keys correspond to screen selections



Large alphanumeric keys for protocol entry

Arrow keys for easy software navigation

