MULTIGENE™ II PERSONAL THERMAL CYCLER

- ❑ TWO MODELS FOR 25x0.2ML AND 16x0.5ML TUBES
- ❑ PELTIER COOLING FOR SUBAMBIENT TEMPERATURE CONTROL
- ❑ AUTO-ADJUSTING HEATED LID
- ❑ EASY PROGRAMMING
- ❑ 40-CHARACTER LCD DISPLAY
- ❑ LIGHTWEIGHT AND COMPACT
- ❑ ECONOMICALLY PRICED

MultiGene II Personal Thermal Cycler

Making advanced thermal cycling technology affordable

The three elements required for an efficient thermal cycler are reliable performance, a fast uniform block and user friendly software. The MultiGene II combines a versatile and precise cycling unit with easy to use software to make it an outstanding personal thermal cycler. Not limited to the amplification of nucleic acids, the unit is also useful for applications such as enzymatic digestion, ligation, and other procedures that require incubation of small samples in a temperature controlled environment.

❑ *Compact and sleek design*

Small enough to be considered a personal thermal cycler, the MultiGene II is supplied with either a 25 x 0.2ml tube block or a 16 x 0.5ml block in a modern molded housing. The compact design of the MultiGene II conserves bench space and allows it to be easily moved to different locations, such as under a biological hood, or stored out of the way.
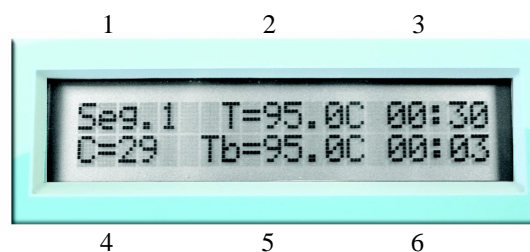
❑ *Reliable performance*

Combining simplicity with performance, the MultiGene II features straightforward and familiar programming with proven cycling technology. Heating and cooling are accomplished electronically by reliable Peltier units. These units are designed specifically for the rapid and precise temperature changes essential for amplification procedures. Uniformity across the block is ±0.4°C at 55°C, ensuring that all samples are exposed to the same temperature conditions. Block heating and cooling are driven by an algorithm that accurately simulates sample temperature. The MultiGene II is supplied with a heated lid for oil-free cycling. For subambient applications where the heated lid is not desirable, it can be turned off.

❑ *User friendly programming*

Cycling parameters are entered using the convenient numerical keypad. Programs can be run immediately upon entering, or up to 99 programs can be saved to the memory for later use. In addition to the standard parameters of time and temperature, the software also allows for successive time and temperature increments and decrements (for touchdown amplification and auto-extension), auto-restart after a power failure, end of cycling elongation steps and extended period soaks at 4°C. The cycler can also be used for holding specific temperatures, allowing it to take the place of a traditional water bath, heat block or incubator.

40-character LCD display allows viewing set and current values while the protocol is being executed.


```
Seg.1    T=95.0C 00:30
C=29   Tb=95.0C 00:03
```

1. Segment number
2. Set temperature
3. Set time for the current step
4. Number of cycles remaining
5. Actual block temperature
6. Remaining time for the current step

Specifications

Capacity:	
TC020A	25 x 0.2ml tubes
TC050A	16 x 0.5ml tubes
Temperature control range:	4° to 99°C
Heating rate:	up to 2.2°C/sec
Cooling rate:	up to 1.9°C/sec
Temperature control accuracy:	0.5°C
Temperature uniformity:	0.4° at 55°C
Maximum number of cycles:	99
Maximum number of segments:	9
Maximum holding time per step:	99 min. 99 sec.
Maximum incubation time:	99 hours, 99 minutes
Program storage capacity:	up to 99 programs
Dimensions (WxDxH)	218 x 285 x 178 mm / 8.6 x 11.2 x 7in
Weight	3.2kg/7.1 lb
Electrical	120V~,50/60Hz
	230V~,50/60Hz

Ordering Information

Cat. No.	Description
TC020A	*MultiGene II* Personal Thermal Cycler with block for 25 x 0.2ml tubes, 115V
TC020A-230V	*MultiGene II* Personal Thermal Cycler with block for 25 x 0.2ml tubes, 230V
TC050A	*MultiGene II* Personal Thermal Cycler with block for 16 x 0.5ml tubes, 115V
TC050A-230V	*MultiGene II* Personal Thermal Cycler with block for 16 x 0.5ml tubes, 230V
TC050-05-C	0.5ml domed cap tubes, clear - 1000 tubes/pk
TC050-05-A	0.5ml domed cap tubes, assorted - 1000 tubes/pk
TC020-02-C	0.2ml domed cap tubes, clear - 1000 tubes/pk
TC020-02-A	0.2ml domed cap tubes, assorted - 1000 tubes/pk

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