

TECHNE

TC-3000 Thermal Cycler Range

Proven performance in DNA amplification



TC-3000 Thermal Cycler Range

Personal thermal cyclers from Techne have provided researchers with a reliable, accurate, low-cost tool for DNA amplification techniques over the past 15 years. Today, as the throughput in many laboratories increases, Techne has expanded the range to meet these needs and the TC-3000 is now joined by the larger capacity TC-3000X and a gradient cycler, the TC-3000G.



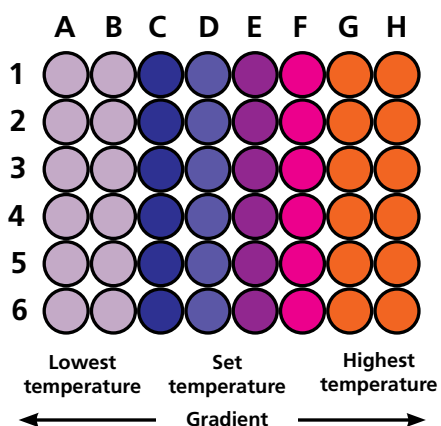
USB Communications

All units can be connected to a PC and controlled by the new Gensoft PC software, with up to 32 cyclers being linked together. The TC-3000X and G models communicate via a USB port and the TC-3000 via RS232.

Techne's experience in the design and manufacture of cyclers since 1987 ensures the accuracy and reliability for quality results, everytime. Every unit is backed by Techne's 4 year warranty.*

- Exceptional block uniformity of less than $\pm 0.2^{\circ}\text{C}$ at 50°C ($\pm 0.1^{\circ}\text{C}$ for the TC-3000).
- Fast heating rates of up to $3.6^{\circ}\text{C}/\text{sec}$ for quick sample ramping.**
- Fast and intuitive programming with speed dial for locating programs quickly. Stored, ready-to-go templates for standard protocols and password protection for security.
- Each of the three units has the same small footprint of $17 \times 33\text{cm}$ making the TC-3000G the smallest gradient cycler in the world.





TC-3000G

The world's smallest gradient cycler, the TC-3000G will hold half a 96-well plate, in a horizontal format so that it offers 8 columns for temperature optimisation and 6 rows for optimising reagents such as $MgCl_2$ and primer concentrations. Annealing temperatures can be optimised over a 15°C gradient between the temperatures of 20 and 80°C.



Heated Lid

The heated lid temperature can be selected between 100°C and 115°C and is automatically disabled for incubations below 35°C to protect the sample. The lid can also be manually disabled at any temperature, if required. TC-3000X and G models have fully adjustable, defined pressure heated lids to accommodate a multitude of consumables, whereas the TC-3000 has a sprung lid to allow any 0.2ml or 0.5ml tube to be used.



Increased Sample Capacity

The new additions have increased sample capacity; accommodating either 48 x 0.2ml or 30 x 0.5ml microtubes. Handling 48 individual tubes can be awkward and time-consuming so to make things easier Techne is also introducing some new consumables. 24 and 48-well plates are available for higher capacity experiments in addition to various 8-tube strips for lower throughput. When prevention of cross-contamination is a must, either FSTRIP3 with 8 individual flat caps or FSTRIP4 with a hinged strip of 8 domed caps are perfect.



TC-3000 Thermal Cycler Range

Technical and Ordering Information



Mini Cooler



Mini Plates



Tube Strips

Technical Information

	TC-3000	TC-3000X	TC-3000G
Sample capacity: 0.2ml	25	48	48
Sample capacity: 0.5ml	20	30	30
Block temperature range 4-99°C		
Peltier elements per block	4	6	6
Block uniformity at 50°C	±0.1°C	≤±0.2°C	≤±0.2°C
Maximum ramp rate	3.6°C/sec	3.3°C/sec	3.3°C/sec
Gradient range	NA	NA	20-80°C
Maximum gradient	NA	NA	15°C
Selectable heated lid temperature 100-115°C		
Heated lid enable/disable	Yes	Yes	Yes
Over-temperature cut-out	Yes	Yes	Yes
Number of programs	80	80	80
Password protection	Yes	Yes	Yes
Programming display 4-line alphanumeric		
Auto restart on power failure	Yes	Yes	Yes
Connectivity to PC	RS232	USB	USB
Dimensions L x W x H (mm)	330 x 185 x 190	330 x 185 x 190	330 x 185 x 190

Ordering Information

Product Code	Description
FTC3/02	TC-3000 thermal cycler, 25 x 0.2ml
FTC3/05	TC-3000 thermal cycler, 20 x 0.5ml
FTC3X/02	TC-3000X thermal cycler, 48 x 0.2ml
FTC3X/05	TC-3000X thermal cycler, 30 x 0.5ml
FTC3G/02	TC-3000G gradient thermal cycler, 48 x 0.2ml
FTC3G/05	TC-3000G gradient thermal cycler, 30 x 0.5ml
FTC3/02/B	TC-3000 block, 25 x 0.2ml
FTC3/05/B	TC-3000 block, 20 x 0.5ml
FTC3X/02/B	TC-3000X block, 48 x 0.2ml
FTC3X/05/B	TC-3000X block, 30 x 0.5ml
FTC3G/02/B	TC-3000G gradient block, 48 x 0.2ml
FTC3G/05/B	TC-3000G gradient block, 30 x 0.5ml
FCOOL	Mini cooler, suitable for all 0.2ml tubes, strip tubes and plates
FSTRIP2	Strips of 8 x 0.2ml tubes, use with domed or flat caps strips (available separately, see below)
FSTRIP3	Strips of 8 x 0.2ml tubes, each tube has individual flat cap
FSTRIP4	Strips of 8 x 0.2ml tubes, with attached hinged strip of 8 domed caps
F8CAP2	Strips of 8 domed caps for use with FSTRIP2
F8CAP3	Strips of 8 flat caps for use with FSTRIP2
F24PLNS	24-well PCR plates (40 plates)
F48PLNS	48-well PCR plates (20 plates)
F24MAT	24-well sealing mats (10 mats)
F48MAT	48-well sealing mats (10 mats)

* All Techne cyclers have a full 4-year warranty with the blocks having a 4-year or 80,000 cycles; whichever comes first.

** 3.3°C for the TC-3000X and TC-3000G.

Aspects of the PCR process are claimed in US patent Nos. 4,965,188 and 4,683,202 and foreign counterparts. Use of the Techne device in such processes does not convey a licence to practice the processes themselves.



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