

# Thermal Cyclers

## Thermal Cycler, TC-3000

The TC-3000 thermal cycler is unrivalled as the most reliable, low cost personal cycler. Designed with research and teaching laboratories in mind, the TC-3000 offers the ultimate in low cost solutions where ease of use is high on the priority list.

### Space saving small footprint

One of the world's best selling personal thermal cyclers, the TC-3000 is even economical on space.

### Rapid heating rate

Utilising the latest Peltier technology the TC-3000 can heat at 3.6°C/sec and cool at 2.0°C/sec.

### Heated lid

The adjustable heated lid (100°C to 115°C), designed to reduce the risk of sample evaporation, can be enabled or disabled. The heated lid only comes on if the block is set above 35°C.

### Fast-track programming

Modern intuitive programming and ready-to-go templates means creating even the most complicated protocols is simple.

### PC control & networking

The TC-3000 can be linked together with any other Techne cyclers; up to 32 cyclers can be networked to one computer.

### Additional benefits

- Temperature range 4°C to 99°C
- Block uniformity of  $\pm 0.1^\circ\text{C}$  at 50°C, ensuring optimal reproducibility
- Password protection: protect your program against unwanted modifications
- Portable dual voltage: has a variable voltage selector

### Technical Specification

	TC-3000
<b>Block formats</b>	
0.5ml capacity	20
0.2ml capacity	25
<b>Block Temperature</b>	
Maximum ramp rate	3.6°C/sec
Block uniformity at 50°C	$\pm 0.1^\circ\text{C}$
Temperature range	4°C to 99°C
Peltier element/block	4
<b>Heated Lid</b>	
Selectable heated lid temperature	100°C to 115°C
Heated lid enable/disable	Yes
<b>Programming</b>	
No. of programs	80
Programming display	4-line alphanumeric
Auto restart on power failure	Yes
Dimensions L x W x H	330 x 170 x 190mm
Voltage	230/115V, 50-60Hz
Power	230W
Shipping Weight	8kg

### Ordering Information

Product Code	Description
FTC3/02	TC-3000 thermal cycler for 25 x 0.2ml microtubes, 115V/230V
FTC3/05	TC-3000 thermal cycler for 20 x 0.5ml microtubes, 115V/230V
FTC3/02/B	TC-3000 block for 25 x 0.2ml microtubes
FTC3/05/B	TC-3000 block for 20 x 0.5ml microtubes



TC-3000



**ALL BLOCKS  
WITH EXTENDED  
WARRANTY**  
4 years or  
80,000 cycles\*

\*See local distributor for  
details and conditions.



Licensed  
for **PCR**



TC-3000X



TC-3000X

## Thermal Cycler, TC-3000X

The new TC-3000X personal cycler is based on the unrivalled and reliable TC-3000. The new model is ideal for those laboratories that need just that little bit more, with its expanded sample capacity to accommodate 48 x 0.2ml tubes or for convenience, a 48-well plate.

### Increased sample capacity

The footprint remains the same, only 561cm<sup>2</sup> but the capacity increases to 48 x 0.2ml or 30 x 0.5ml tubes.

### Adjustable heated lid

The heated lid can now be adjusted for use with all PCR tubes, strip tubes or 48-well plates sealed with sealing mats.

### Rapid heating rate

Utilising the latest Peltier technology the TC-3000X has a heating ramp rate of 3.3°C/sec and a 2.0°C/sec cooling rate.

### Fast-track programming

Modern intuitive programming and ready-to-go templates means creating even the most complicated protocols is simple.

### PC control & networking

The TC-3000X can be linked together with other Techne cyclers; up to 32 cyclers can be networked to one computer.

### Technical Specification

	TC-3000X
<b>Block formats</b>	
0.5ml capacity	48
0.2ml capacity	30
<b>Block Temperature</b>	
Maximum ramp rate	3.3°C/sec
Block uniformity at 50°C	±0.2°C
Temperature range	4°C to 99°C
Peltier element/block	6
<b>Heated Lid</b>	
Selectable heated lid temperature	100°C to 115°C
Heated lid enable/disable	Yes
<b>Programming</b>	
No. of programs	80
Programming display	4-line alphanumeric
Auto restart on power failure	Yes
Dimensions L x W x H	330 x 170 x 190mm
Voltage	90-260V, 50-60Hz
Power	230W
Shipping Weight	6kg

### Ordering Information

Product Code	Description
FTC3X/02	TC-3000X thermal cycler for 48 x 0.2ml microtubes, 100V/115V/230V
FTC3X/05	TC-3000X thermal cycler for 30 x 0.5ml microtubes, 100V/115V/230V
FTC3X/02/B	TC-3000X block for 48 x 0.2ml microtubes
FTC3X/05/B	TC-3000X block for 30 x 0.5ml microtubes

## Thermal Cycler, 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 annealing temperature optimisation and 6 rows for optimising reagents such as MgCl<sub>2</sub> and primer concentrations. Annealing temperatures can be optimised over a 15°C gradient between the temperatures of 20 and 80°C.

All the features of the TC-3000 and TC-3000X plus...

### Gradient block

A gradient of up to 15°C between the temperatures of 20 and 80°C can be set, allowing any protocol to be optimised within a single experiment.

### New software

Enables a gradient to be added to any temperature step of the program.

### Gradient calculator

The gradient calculator function displays the temperature for each of the 8 columns, ensuring easy replication of thermal conditions.

### Technical Specification

	TC-3000G
<b>Block formats</b>	
0.5ml capacity	48
0.2ml capacity	30
<b>Block Temperature</b>	
Gradient range	20°C to 80°C
Maximum gradient	15°C
Maximum ramp rate	3.3°C/sec
Block uniformity at 50°C	±0.2°C
Temperature range	4°C to 99°C
Peltier element/block	6
<b>Heated Lid</b>	
Selectable heated lid temperature	100°C to 115°C
Heated lid enable/disable	Yes
<b>Programming</b>	
No. of programs	80
Programming display	4-line alphanumeric
Auto restart on power failure	Yes
Dimensions L x W x H	330 x 170 x 190
Voltage	90-260 V, 50-60Hz
Power	230W
Shipping Weight	6kg



TC-3000G



### Ordering Information

Product Code	Description
FTC3G/02	TC-3000G gradient thermal cycler for 48 x 0.2ml microtubes, 100V/115V/230V
FTC3G/05	TC-3000G gradient thermal cycler for 30 x 0.5ml microtubes, 100V/115V/230V
FTC3G/02/B	TC-3000G gradient block for 48 x 0.2ml microtubes
FTC3G/05/B	TC-3000G gradient block for 30 x 0.5ml microtubes