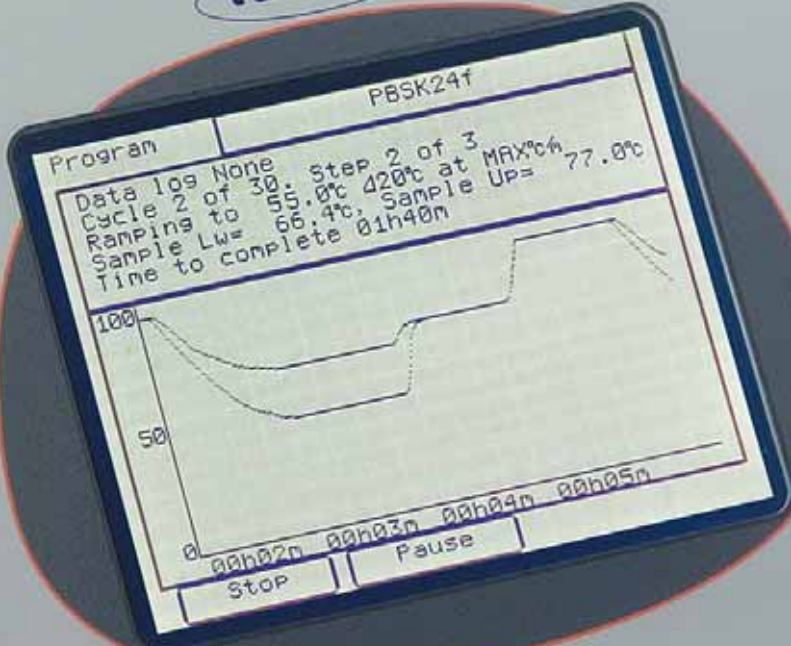




TC-512 Thermal Cycler

Industry Leading Warranty...
4 years or 80,000 cycles



TC-512

TECHNE

TC512 Thermal Cycler

The **TC-512** has a graphical Touch Screen display which enables you to optimize your experiments at the **"touch of a screen."**



Wide linear gradient:

The only Gradient Thermal Cycler on the market to offer quad circuit technology which results in the most linear gradient on the market, with an amazing range of 30°C. Protocols can be optimized in a single experiment.

Touch Screen:

The TC-512 incorporates a large, 115 x 90mm, touch-sensitive screen that provides a unique user-friendly programming interface which is second to none.

Graphical display:

The unique 'real-time' graphical display shows the sample temperature profile while the program is running, including the upper and lower limits of the gradient. This pictorial, real-time representation means instant visualization of your experiment's status.

Memory cards:

Smart Media memory cards provide an alternative to internal memory storage of your programs, offering security and flexibility.

Gradient calculator:

The gradient calculator function displays the temperature of each column. This ensures replication of the experimental conditions.

High performance:

Each block consists of 8 peltier units, controlled by 4 independent temperature thermistors (control sensors) distributed evenly across the block. This ensures that the TC-512 exhibits the most accurately controlled linear gradient available*.

4-Fold control:

A maximum heating rate of 3°C/Sec and block uniformity of $<\pm 0.4^\circ\text{C}$. With or without a gradient.....no compromise!

Versatile block format:

The truly user-friendly interchangeable block system allows blocks to be interchanged in a matter of seconds without the need of any tools (60 x 0.5ml 96 x 0.2 ml, 3841 well, Insitu Block2).

Technical Specification

| | |
|---|-----------------------------------|
| Blocks Formats | |
| 0.5ml capacity | 60 |
| 0.2ml capacity | 96 |
| 384-well block | Yes |
| Gradient block | 0.5mL, 0.2 mL, 384 |
| In-situ block | Yes |
| User interchangeable | Yes |
| Block Temperature | |
| Gradient range | 20°C to 70°C |
| Maximum gradient | 30°C (16°C for 384 block) |
| Maximum ramp rate* | 3.0°C/sec |
| Block uniformity at 50°C* | $<\pm 0.3^\circ\text{C}$ |
| Column uniformity with a 10°C | gradient $<\pm 0.3^\circ\text{C}$ |
| Temperature range | 4°C to 99°C |
| Temperature set point precision | 0.1°C |
| Heated Lid | |
| Selectable heated lid temperature | 100°C - 115°C |
| Heated lid enable/disable | Yes |
| Over temperature cut out | Yes |
| Regulated lid pressure | Yes |
| Heated lid only comes on if block is set above 35°C | |
| Programming | |
| Memory cards | Yes |
| Number of programs # | 50 or 500 (with card) |
| Password protection | Yes |
| Programming | Touchscreen |
| Graphical display | Real-time graph |
| Incremental/decremental temperature | Yes |
| Incremental/decremental hold time | Yes |
| Maximum hold time | 99 hrs |
| Minimum hold time | 1 sec |
| Variable programmable ramp rate | 0.1°C/sec steps |
| Run end time calculation | Yes |
| Pause and stop facility | Yes |
| End of program alarm (enable/disable) | Yes |
| Auto restart on power failure | Yes |
| Miscellaneous | |
| Serial port | RS232 |
| Dual Voltage (120/230V) | Yes |
| Temperature sensor | Thermistor |
| Peltierelements/block | 8 |
| Dimensions L x W x H (mm) | 420 x 220 x 260 |
| Footprint L x W (mm) | 420 x 220 (16.5" x 8.7" x 10") |
| Connection to PC control program | Yes |
| Free software upgrades from website | Yes |
| Power consumption | 620 Watts |
| Frequency | 50 - 60 Hz |
| Net weight | 11kg (total) |



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.