Techne® TC-3000 Thermal Cycler

The TC-3000 is the latest upgrade of the Techne® TC-312: one of the best selling, most reliable and inexpensive personal thermal cyclers available on today's market.

Designed specifically to meet the budgets and PCR® applications of research and teaching laboratories, the TC-3000 offers all the benefits of the TC-312 to ensure reproducible high performance, including rapid heating and temperature uniformity of the heating block; a robust, spring-loaded heated lid; PC control and fastprogramming with free software upgrades. In addition to the TC-3000, Scie-Plas can also offer many other products from the Techne® range, including the TC-412 and TC-512 thermal cyclers, hybridisation incubators, Dri-Block® heaters, water baths, sample concentrators and biological stirrers. Contact sales@scie-plas.co.uk for a full Techne® product catalogue and quotation.

	TECHNICAL	SPECIFICATION
Programming		Block Tempera
Number of Programs	99 (3 segment	No of 0.2ml Wel
	programs)	No of 0.5ml Wel
Alphanumeric Key Pad	Yes	Colour of Wells
Program Naming Capability	Alphanumeric	Block Temperat
Program Password Protection	Yes	Heating Ramp F
Display	Large 4-line alphanumeric	Cooling Ramp Ra
Maximum Number of Segments/Loops	80	
Maximum Number of	99	Cooling Ramp Ra
Repeat Cycles per Program		Uniformity at 50
End of Program Alarm	Yes (can be disabled)	Uniformity at 72
Pause Facility	Yes	Uniformity at 95
Incremental/Decremental Timing & Temperature	Yes	Accuracy at 50 °
Auto Restart on Power Failure	Yes	Accuracy at 72 °
Run Fnd Time Calculation	Yes	Accuracy at 95 °
Variable Programmable Ramp Rate Steps	± 0.1°C/sec	Temperature Set Point Adjust
Connections and Dimensions		End of Program
Serial Port RS 232 Socket	Yes	Below Ambient
Voltage Selection Switch	Yes	*Uniformity is the t
Power Supply	230W	across the block ur
Dimensions (W x L x H)	185 x 305 x 190mm	
Footprint	No more than 565cm ²	

Net Weight

Block Temperature	
No of 0.2ml Wells	25
No of 0.5ml Wells	20
Colour of Wells	Blue/Black
Block Temperature Range	4°C to 99°C
Heating Ramp Rate*	3.6°C/sec minimum
Cooling Ramp Rate 0.2 ml block*	2.0°C/sec minimum
Cooling Ramp Rate 0.5 ml block*	1.8°C/sec minimum
Uniformity at 50 °C	0.2°C
Uniformity at 72 °C	0.4°C
Uniformity at 95 C	1.0°C
Accuracy at 50 °C	± 0.2°C
Accuracy at 72 °C	± 0.4°C
Accuracy at 95 °C	± 0.3°C
Temperature Set Point Adjustment	0.1°C
End of Program Cooling Below Ambient Temperature	Yes to 4°C

*Uniformity is the typical variation in temperature that may occur across the block under ambient conditions of 20°C

ORDERING INFORMATION

No more than 5Kg

Complete System		Part No.
TC-3000 thermal cycler for 25 x 0.2ml microtubes,	120V / 230V	FTC3/02
TC-3000 thermal cycler for 20 x 0.5ml microtubes,	120V / 230V	FTC3/05
Replacement Parts & Accessories		
1 x TC-3000 block for 25 x 0.2ml microtubes		FTC3/02/B
1 x TC-3000 block for 20 x 0.5ml microtubes		FTC3/05/B
1 x PC connection to connect one thermal cycler		
to PC (RS232 ONLY), includes cable and software		FGEN232
1 x one cycler cable extension set		FGENONE
1 x two cycler cable set		FGENTWO
1 x four cycler cable set		FGENFOUR
1 x ten cycler cable set		FGENTEN
1000 x 0.2ml microtubes		FTUB02TW
1000 x 0.5ml thin walled microtubes		FTUB05TW



BENEFITS INCLUDE

- Small, low cost of the world's best selling thermal cyclers, the TC-3000 is the smallest, most cost-effective unit on the market
- Available in 25 x 0.2ml or 20 x 0.5ml microtube interchangeable block formats
- Fast-track programming with free software upgrades available from the Techne® website
- Ease of use with modern, intuitive programming and ready-to-go templates, creating even the most complicated protocols is simple
- Reliable, high performance with quality guaranteed - borne from 20 years' experience of manufacturing thermal cyclers
- Portable Dual Voltage a compact, lightweight unit with a variable voltage selector ensures that it can be transported and used anywhere in the
- Unparalleled block uniformity ±0.1°C at 50°C, ensuring optimal reproducibility
- Fast heating rate up to 3.6°C/sec heating rate and 2.0°C/sec cooling rate
- **Heated lid** a selectable temperature range heated lid (+100°C to +115°C) is sprung to fit both 0.2ml domed and 0.5ml flat top tubes
- Smallest footprint yet at only 561cm2, the TC-3000 is economical on space
- PC control & networking can be networked together with other Techne® cyclers allowing up to 32 cyclers to be connected to one PC
- Password protection protects programs against unwanted modifications
- 4-year minimum warranty