



TurboCycler 3

High-Throughput Triple-Block Gradient PCR Thermal Cycler



Triple-Block Flexibility

Run three distinct PCR protocols at once, perfect for multi-users environments and diverse low-sample experiments.



High-Throughput Efficiency

Maximize throughput with up to 3 x 48 x 0.1/0.2 ml samples.



Fast Gradient Optimization

Easily adjust PCR conditions across three independent blocks, ranging from 30 to 100°C with a maximum span of 30°C.



Advanced Ramp Rate Control

Adjust ramp rates from 0.1 to 5.0 °C/sec, accommodating various assays including CRISPR-related experiments.



Intuitive Operation

Effortless programming on a large 10.1-inch color touch screen with a user-friendly interface.



Continuous Reliability: Zero Downtime

Each of the three independent block modules can be calibrated separately, ensuring uninterrupted operation during maintenance.

Specifications

Sample Block

3 x 48 Well, Gradient Block	Compatible with 0.2 ml or 0.1 ml PCR tube, strip, non-skirted, and semi-skirted 48-well plate
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Block Temperature

Block Temperature Range	4.0 - 100 °C
Max. Heating / Cooling Rate	5.0 °C/sec / 3.0 °C/sec
Temperature Accuracy	+/- 0.3 °C
Temperature Uniformity	+/- 0.4 °C
Adjustable Ramp Rate	Yes, 0.1 - 5.0 °C/sec

Gradient Temperature

Gradient Direction	Vertical across the block
Gradient Temperature Range	30 - 100 °C
Gradient Temperature Difference	Max. span 30 °C

Heated Lid

Temperature Setting Range	35 - 120°C or off
Temperature Accuracy	+/- 1.0 °C

Software

Portability of Protocols	Save and transfer to another TurboCycler via USB flash drive
Stored Program No.	> 4000 sets
Registered User Folder No.	100 sets
User Folder Password Protection	Yes
Run Status Report	Yes, HTML output and transfer via USB flash drive
Real-Time Temp. Profile Export	Yes, CSV output and transfer via USB flash drive
Tools	Tm calculator, Copy number convertor, Master mix preparation wizard

General

Display	10.1" color LCD with capacitive touch panel
Data Port	1 USB A front port for USB flash drive
Auto restart after Power Outage	Yes
Footprint Dimensions (H x W x D)	240 mm x 340 mm x 340 mm
Weight	13 kg
Power Supply	AC 100 - 240V, 50/60Hz, 1000 W
Certification	CE

Specifications are subject to change without prior notice.

Ordering Information

TCTT-4810 Gradient TurboCycler 3 with Three Independent Blocks

TCTT-a001 Tube Frame

TCTT-a002 5 mm Compression Mat x 10 pcs



Authorized Distributor