

TurboCycler 3

EMPOWER PCR FLEXIBILITY
AT HIGH THROUGHPUT



Empower PCR Flexibility at High Throughput

TurboCycler 3 is the most powerful high-throughput PCR thermal cycler in its class. Run 3 independent experiments (3x48 samples) simultaneously with unmatched flexibility. Fast gradient optimization and advanced ramp rate control tailor PCR conditions for maximized efficiency. These features unite to boost your research throughput.



Why Do Researchers Choose TurboCycler 3?



Triple-Block Flexibility

Run three distinct PCR protocols at once, perfect for multi-user environments and experiments with diverse conditions.



High-Throughput Efficiency

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



Fast Gradient Optimization

PCR conditions across the three independent blocks are easily adjusted and range from 30 to 100 °C with a max 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" color touch screen with a user-friendly interface.



Continuous Reliability: Zero Downtime

Each of the three independent block modules can be independently calibrated to ensure uninterrupted operation during maintenance.



We Help You Find Your Perfect Match



TurboCycler 3

High-throughput triple block PCR for multipurpose



TurboCycler 2

High performance and standard PCR option



TurboCycler Lite

Economical routine thermal cycling

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	Increase in vertical direction
Gradient Temperature Range	30 - 100 °C
Gradient Temperature Difference	Max span 30 °C

Heated Lid

Temperature Setting Range	35 - 130 °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.	> 4,000 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)	236 mm x 356 mm x 362 mm
Weight	13 kg
Power Supply	AC 100 - 240 V, 50/60 Hz, 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 3 pcs



ISO 13485

Authorized Distributor