

# TurboCycler 3

EMPOWER PCR FLEXIBILITY  
AT HIGH THROUGHPUT



 **BLUE-RAY**  
BIOTECH

# 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.



## 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.

## 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.

## 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

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