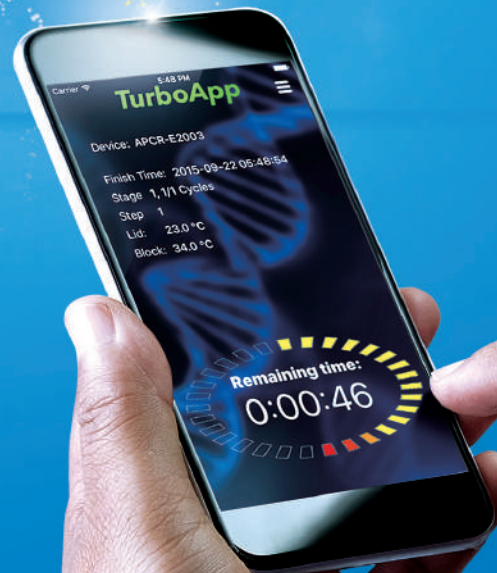


# TurboCycler 2

Enhancing PCR Efficiency and Accuracy



# Enhancing PCR Efficiency and Accuracy

TurboCycler 2 thermal cycler is designed specifically to enhance PCR efficiency and accuracy. It is equipped with a 7" sensitive touchscreen and a user-friendly graphic interface, making operations highly intuitive.

With flexible ramp rate and gradient temperature control, TurboCycler 2 greatly optimizes PCR accuracy. With the Wi-Fi function, the PCR status can be monitored remotely at any time with convenience.



## Outstanding Performance



### Flexible Ramp Rate Control

from 0.1 - 5.5 °C/sec to meet the need of different experiment requirements.



### Fully Adjustable Lid Temperature

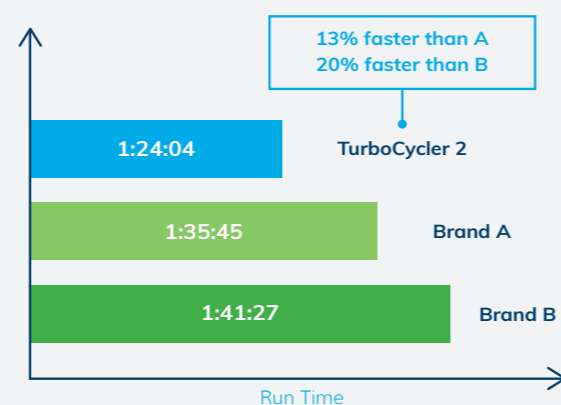
can be set between 35 - 120 °C for virtually any type of experiment, including NGS pre-treatment.



### Gradient Optimization

range of 1 - 30 °C enables optimal experimental conditions in a single PCR run.

The high ramp rate and precise temperature control of TurboCycler 2 gives excellent PCR efficiency.



Run time comparison between TurboCycler 2 and competitors.

## Intuitive Operation Experience

### Easy to Control

The sensitive 7" capacitive touchscreen enables easy operation even with laboratory gloves.



### User-Friendly Interface

The graphic interface is easy to use, making the adjustment of experiment parameters such as temperature, time and cycle quick and simple.



## Efficient Remote Monitoring



Monitor your PCR status remotely anytime on your mobile device via the free TurboApp.



## Highly Flexible Connectivity

- > Easy-to-operate heated lid design, compatible with most PCR vessels on the market.
- > Can store over 4,000 built-in programs and supports additional USB port for protocol transfer.

# Specifications

## Sample Block

96 Well, Gradient Block	Compatible with regular profile or low profile 0.2 ml PCR tube, strip, non-skirted, semi-skirted and full-skirted 96-well plate
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## Block Temperature

Block Temperature Range	4.0 - 100 °C
Max. Heating / Cooling Rate	5.5 °C/sec / 3.3 °C/sec
Temperature Accuracy / Uniformity	+/- 0.3 °C / +/- 0.3 °C
Adjustable Ramp Rate	0.1 - 5.5°C/sec

## Gradient Temperature

Gradient Direction	Horizontal 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 computer or TurboCycler 2 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	7" color LCD with capacitive touch panel
Data Port	1 USB Type-A front port for USB flash drive
Heated Lid	35 - 120 °C or off
Auto Restart after Power Outage	Yes
Remote Monitoring via Wi-Fi	Optional
Footprint Dimensions (H x W x D)	225 mm x 245 mm x 415 mm
Weight	9.5 kg
Power Supply	AC 100-240 V, 50/60 Hz, 750 W
Certification	CE, RoHS

Specifications are subject to change without prior notice.

## Ordering Information

TCST-9612	Gradient TurboCycler 2 with 96-Well Sample Block (110 V)
TCST-9622	Gradient TurboCycler 2 with 96-Well Sample Block (220 V)
TCST-a001	Wi-Fi Upgrade Module
TCST-a002	5.2 mm Compression Mat x 10 pcs
TCST-a003	1.0 mm Compression Mat x 10 pcs



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