

PCR Thermal Cycler Turbo2

Description

The Turbo2 thermal cycler was specifically designed to improve PCR efficiency and accuracy. It features a 7-inch touchscreen and a user-friendly graphical user interface, making it extremely intuitive to use.

Thanks to flexible ramp rates and gradient temperature control, the Turbo2 significantly optimizes PCR precision. With its Wi-Fi capability, you can conveniently monitor PCR run status at any time from the comfort of your own home.

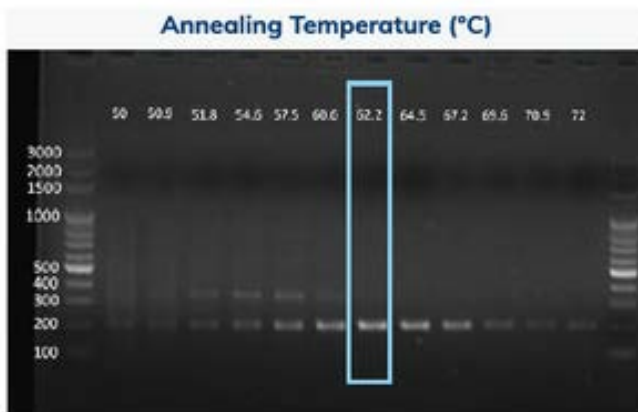
An affordable and compact device with an A4-sized footprint and a 7-inch touchscreen with an easy-to-understand user interface.

The optional smartphone app also allows users to monitor the run status via mobile devices.

Order No. Thermal cyler Turbo2 : 112.6010
(without WiFi modul, please order separately)

Optimized Gradient Function

Enables users to screen optimal experimental conditions in a single PCR run.



The specific 200bp PCR product has the best PCR yield at an annealing temperature of 62.2 °C.



Thermal cycler Turbo2



Thermal cycler Turbo2 with open lid

PCR Thermal Cycler Turbo2

Specifications

Outstanding Performance

- Proven Peltier technology for trouble-free heating and cooling
- Fast heating rate up to 5.5 °C/sec
- Excellent temperature accuracy and uniformity (+/- 0,3 °C)
- 12-section gradient temperature range from
- 1 to 24.9°C for PCR optimization
- Quick boot-up in only 45 seconds

Flexible Ramp Rate Control

From 0.1 to 5.5 °C/s to meet the needs of CRISPR-related testing.

Gradient Optimization

A temperature range of 1–30°C allows for optimal experimental conditions in a single PCR run.

Intuitive Operation Experience

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

User-Friendly Interface

The simple conversational graphic user interface, which has intuitive spinning wheels, makes adjustment of experiment temperature, time and cycle easy.

Convenient Tools

The built-in tools allow easy T_m calculation, copy number conversion and master mix preparation.

Adjustable Lid Temperature

Can be adjusted between 35 and 120°C for virtually any type of experiment, including NGS pretreatment.

Multi-Probe Temperature System

For calibration and QC process.

USB-Port

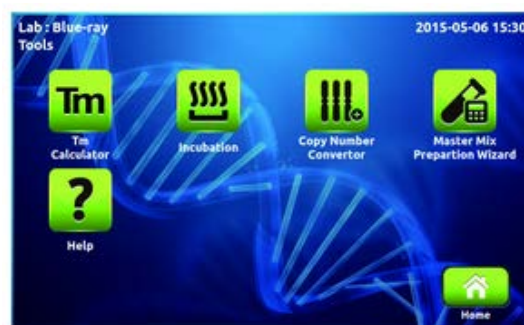
For protocol and run log output via USB flash drive.

Smartphone App (optional)

Allows monitoring PCR run status anytime via mobile devices using the free TurboApp.



TurboCycler 2 with clear touchpad



Display mit voreingestellten Programmen Turbo2



Beispieldisplay Turbo2

Thermal Cycler Turbo2 - Technical Data

Sample Block	
Gradient Block	96-Well, compatible with regular profile or low profile 0.2 ml PCR tube, strip, none-skirted, semi-skirted and full-skirted 96-well plate
Sample Volume	10 100 µl
Block Temperature	
Block Temperature Range	4.0 – 99.9 °C
Max. Heating Rate	5.5 °C/sec
Max. Cooling	3.3 °C/sec
Temperature Accuracy	± 0.3 °C
Temperature Uniformity Across Block	± 0.3 °C
Adjustable Ramping and Cooling 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
Lid Heating	
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 Technical Data	
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 Motoring via Wi-Fi	Optional
Footprint Dimensions (H x W x D)	225 x 245 x 415 mm
Weight	9.5 kg
Volume (Measuring distance approx. 40 cm)	Heating noise: ~46 db, Cooling noise: ~56 db
Power Supply	VAC 100-240 V, 50/60 Hz, 750 W
Certification	CE, RoHS