

NEW!



# PCR Next to Me

Eppendorf Mastercycler nexus: combine, connect, control

**eppendorf**

# PCR – Next to Me

## Eppendorf Mastercycler nexus Family

In the age of networking, the new **Mastercycler nexus** is your reliable companion when it comes to the daily routine of PCR. It is easy to use, does not need much space or energy and sends you an e-mail when it is done – what else do you need from a PCR cycler?

### Combine, Connect, Control

- Combine up to 3 units for ultimate throughput!
- Connect your Mastercycler nexus to your computer network and get a status e-mail to your desk!
- Control all the relevant parameters of your PCR through the intuitive software

### Do you just need an affordable, flexible and reliable PCR instrument?

The Mastercycler nexus is exactly that. It brings the reliability and ease of use of an Eppendorf cycler at an affordable price. Low energy consumption, easy expansion to 3 units and a small footprint make it not only fit to your budget, but also to your precious lab space.

Due to the flexlid concept, the cycler can deal with all types of PCR consumables, from low volume all the way up to 0.5 mL PCR tubes. Of course, all common PCR plates fit – and if your throughput becomes even higher, you can just connect one or two Mastercycler nexus eco to your Mastercycler nexus.

### Product features

- Intuitive graphic programming
- Small footprint
- Universal block for ultimate flexibility
- Connect up to 2 Mastercycler nexus eco to your existing unit
- Available with 12 column gradient
- E-mail notification
- flexlid concept allows use of all types of consumables with automatic height adjustment of the lid



# PCR gets smart

## Gradient with SteadySlope Technology

The gradient option of the Mastercycler nexus features the SteadySlope technology to ensure that the heating and cooling ramp rates are identical in both gradient and normal operation. Thus, you can expect identical temperature control characteristics in both optimization and routine experiments. Programming the gradient is easy and intuitive – so that novice users can get started quickly and safely.

A true gradient with 12 different temperatures is an extremely powerful tool that can help you to optimize your PCR. For further information, please visit [www.ependorf.com/pcr](http://www.ependorf.com/pcr)



Connect up to  
2 Mastercycler nexus eco  
to increase throughput



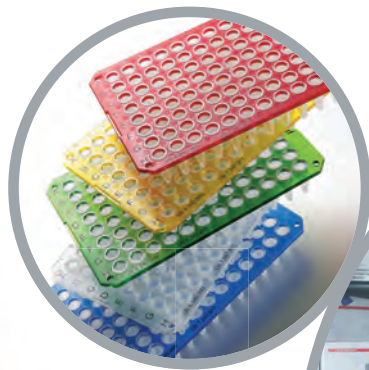
# In good Company

## High Quality Consumables

Consumables of high quality, e.g. Eppendorf twin.tec PCR plates, help to improve PCR results. For example, the raised rims of the Eppendorf twin.tec PCR plates are optimized to guarantee a tight sealing for all wells. For further information, please visit [www.eppendorf.com/pcr](http://www.eppendorf.com/pcr)

## Certified Quality

- Individual, documented quality control certificate
- Calibration accordingly to national and international standards: NIST (USA), DKD/PTB (Germany), UKAS/NPL (UK)
- UL / CUL listed



## ● Easy testing

The self test function of the Eppendorf Mastercycler nexus checks the functionality of all six peltier elements of the block. This way, the user can document the homogeneity of the instrument easily in a certificate. In addition, Eppendorf offers a Temperature Verification System as an external testing device.



flexlid adjusts to height of consumables

One hand operation

Intuitive graphic programming

Stand-by function saves energy

E-mail notification

USB port for data transfer or mouse connection

# Eppendorf Mastercycler® nexus

## Technical Specifications

Description	Mastercycler® nexus gradient	Mastercycler® nexus	Mastercycler® nexus eco
Thermoblock	Aluminum	Aluminum	Aluminum
Sample capacity:	96 × 0.2 ml PCR tubes, 1 PCR plate 8 × 12 or up to 71 × 0.5 mL PCR tubes		
Temperature control range of the block:	4–99 °C		
Temperature control mode:	Fast, Standard, Safe		
Heating technology of the block:	Peltier elements, Triple Circuit Technology		
Gradient block:	Over 12 rows	–	–
Gradient range:	1–20 °C	–	–
Gradient temperature range:	30–99 °C	–	–
Lid temperature range:	37–110 °C		
Lid descent and closing pressure:	flexlid™ technology, with Thermal Sample Protection		
Block homogeneity:	20–72 °C	≤ ±0.3 °C	
	95 °C	≤ ±0.4 °C	
Block temperature accuracy:	± 0.2 °C		
Heating rate*:	approx. 3 °C/s		
Cooling rate*:	approx. 2 °C/s		
Interfaces:	USB, Ethernet, CAN in, CAN out		CAN in, CAN out
Dimensions (W × D × H):	25 × 41.2 × 32.1 cm		
Weight:	10.9 kg (24 lbs)	10.9 kg (24 lbs)	10.4 kg (23 lbs)
Power supply:	115 or 230 V, 50–60 Hz		
Max. Power consumption:	700 W		

\* Heating and cooling rates measured at block

## Ordering information

Description	Int. Order no.	North America Order no.
Mastercycler® nexus gradient	6331 000.017	6331000025
Mastercycler® nexus	6333 000.014	6333000022
Mastercycler® nexus eco*	6332 000.010	6332000029
CAN_BUS connection cable, 50 cm	5341 612.006	950014008
CAN_BUS connection cable, 150 cm	5341 611.000	950014016
Self test dongle	6320 071.001	950030040
Temperature Verification System with 96 well sensor plate	6328 000.006	6328000006

\*A Mastercycler nexus gradient or Mastercycler nexus is needed to run a Mastercycler nexus eco. Up to 2 Mastercycler nexus eco can be controlled by one Mastercycler nexus gradient or Mastercycler nexus.

For further information, please visit [www.eppendorf.com/pcr](http://www.eppendorf.com/pcr)

**eppendorf**  
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