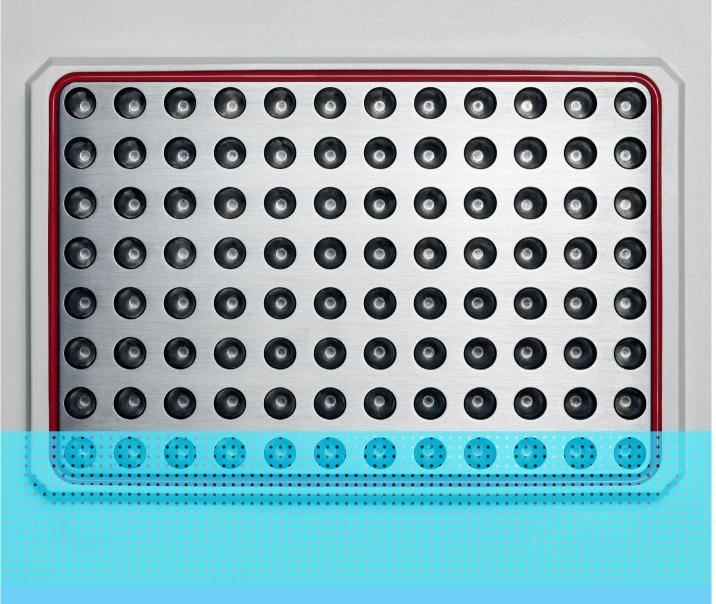
eppendorf



Amplify

Eppendorf Mastercyclers®—best conditions for PCR



Mastering PCR is easy—if you have the right equipment.

»Eppendorf—designing instruments that fit the needs of today's scientist.«

Do not let poor instruments compromise your PCR results. Eppendorf blocks show excellent homogeneity and accuracy. Fast ramp rates are precisely controlled allowing fast and reproducible PCR runs. Programming is easy and protocols can be password protected. All this supports your constant strive for reproducible and meaningful results.

Reproducibility

- > In PCR, precise and accurate block control is paramount
- > The Eppendorf blocks feature SteadySlope[®] gradient technology to ensure that ramp rates are identical in both gradient and normal mode.

Intuitivity

- > The graphic programming is quick, easy and intuitive.
- > Find all your protocols in your individual folder and protect them with a password.
- > Pause function, variable ramp rates and block modes and a lot more is at your disposal.

Reliability

- > Specially designed lids reduce the evaporation during PCR and help to accommodate a wide variety of PCR consumables.
- > The solid handles allow one hand operation of the instrument. No turning knobs are needed to lower the heated lid.







The Mastercycler® nexus X2

The Mastercycler nexus X2 gives you the ability to run two totally independent protocols at the same time. Smaller assays fit nicely on the 32-well-block—larger assays can exceed 48 samples and run on the 64-well-block. The larger block is available with a gradient function.

As every member of the Mastercycler nexus family, the Mastercycler nexus X2 can be combined with all other family members in a network of up to 3 units. That allows you to install the best solution for your needs and benefit from the same intuitive software on all your PCR devices.

In combination with Eppendorf's PCR Tubes, PCR Strips or divisible plates, the Mastercycler nexus X2 will give you consistent and publishable results—every day!

Product features

- > Large block for large assays—small block for small assays.
- > Universal block for strips, 0.2 mL and 0.5 mL PCR tubes
- > Intuitive graphic programming (optional mouse use)
- > Optional gradient for PCR optimization
- > E-mail notification
- > Combine up to 3 units for maximum throughput!





Benefits at your fingertips:

Two independent blocks of different sizes provide a lot of flexibility. Combine up to 3 units for higher throughput. Low noise, low power consumption, intuitive software.

Technical Specifications	
Block homogeneity:	
20 °C–72 °C	≤ ±0.3 °C
95 °C	≤ ±0.4 °C
Heating rate*	ca. 3 °C/s
Cooling rate*	ca. 2 °C/s
Max. power consumption	700 W
Block temperature accuracy	± 0.2 °C
Sound power levels	< 40 dB[A]
Temperature control range of the block	4–99 °C
Temperature control mode	Fast, Standard, Safe
Gradient range	12 °C
Gradient temperature range	30–99 °C
Lid temperature range	37–110 °C
Dimensions (W \times D \times H)	25 × 41.2 × 33 cm
Weight	11 kg (24.2 lbs)
* Heating and cooling rates measured at block	



* Heating and cooling rates measured at block

Mastercycler[®] nexus



PCR next to me

In the age of networking, the new Mastercycler nexus with it's four different block versions is your reliable companion when it comes to the daily routine of PCR. Depending on the block, it can accommodate 96-well PCR plates, 0.2 mL and 0.1 mL PCR tubes and strips, 0.5 mL PCR tubes and even slides.

It is easy to use, does not need much space or energy and sends you an e-mail when it is done.

Combine, Connect, Control

- > Combine up to 3 units for maximum 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

Product features

- > Extreme consumables flexibility
- > Small footprint
- > Intuitive graphic programming (optional mouse use)
- > Optional gradient for PCR optimization
- > Up to two other units can be connected
- to a central unit
- > E-mail notification
- > flexlid[®] concept: automatic height adjustment of the lid allows you to use all types of consumables
- > 2-year warranty
- > Optional self-test functionality

Applications

- > Standard PCR
- > Cycle sequencing
- > In situ PCR



Mastercycler nexus X2

- > Run two independent protocols on the two blocks
- > Large block for large asays small block for small assays



Mastercycler[®] nexus

»To raise new questions, new possibilities, to regard old problems from a new angle, requires creative imagination and marks real advance in science.«

Albert Einstein



PCR Consumables

In good company—high quality consumables

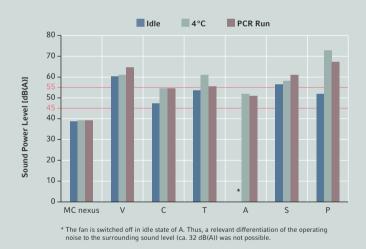
Every researcher doing PCR always wonders about the best instrument, the best master mix, the best polymerase. Also when it comes to choosing the plastic consumables that build the connection between PCR instruments and your precious sample, the same rationality and prudence should be applied.

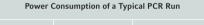
Different consumables can make a huge difference in the quality and reproducibility of your PCR results. Wall thickness, thermal conductivity of the material, mechanical stability and many other technical characteristics will have a direct impact on your experiment and subsequently the results. Make sure you use the best fitting PCR consumables for your application!

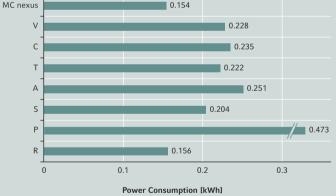
> 96-well and 384-well PCR plates for high and medium throughput

- > Divisible plates, PCR tubes and tube strips for lower throughput
- > Sealing options, racks and other accessories for an optimized workflow









Low Noise Emission

The Mastercycler nexus is a whisper quiet PCR machine. Low noise levels make working in your lab more pleasant and enjoyable, particularly when you are thinking about your next big breakthrough findings....

With its ultra quiet ventilation, noise levels of < 40 dB[A] are achieved. Enjoy it!

Source: Eppendorf Application Note 243, December 2011, »The Mastercycler® nexus combines high energy efficiency with very low noise generation«

Low Energy Consumption

Do you pay for electricity or is your lab held accountable for the electricity bill? Eppendorf's Mastercycler nexus is optimized for low power consumption—regardless if the PCR is running, idle or in standby mode.

Mastercycler[®] pro

Reproducibility at its best

Getting reproducible results quickly—that is vital for PCR in any application. The Mastercycler pro has been designed and developed to fulfill this requirement. The **vapo**.protect[®] concept reduces evaporation to a minimum. Therefore, concentrations in your PCR master mix remain consistent minimizing non-specific binding beyond importance. The high heating and cooling rates of the Mastercycler pro S give you the speed you need. Even higher speed can be achieved with Impulse PCR, a hot-start function that increases heating rates to 8 °C/s.

Stop evaporation effectively!

The flexible fit of the fluid cushion minimizes evaporation of your reaction considerably. Only 0–3 % of the reaction volume evaporates using the new **vapo**.protect technology.

Thermocyclers of other suppliers show evaporation of up to 10% in the center and up to >50% at the corner positions of the block.

Thus, the **vapo**.protect technology leads to improved reproducibility and specificity at the rim and in the corners of the block.

Product Features Mastercycler pro

- > Ultimate reduction of evaporation
- > Extremely fast heating and cooling rates
- > Intuitive graphic programming
- > Gradient blocks with SteadySlope technology
- > Up to 5 units can be networked using a Control Panel
- > Up to 30 units can be networked using a PC software
- > Display indicates cycler number in a network
- > 2 year warranty
- > Optional self-test functionality



Quality is timeless



The Mastercycler gradient was Eppendorf's first gradient cycler. Today the gradient function remains critical for many PCR labs.

The next generation Mastercycler pro is still one of the fastest cyclers around. Its **vapo**.protect concept is the latest in evaporation reduction technology.

Lately, Eppendorf has introduced the Mastercycler nexus, Mastercycler nexus X1 and Mastercycler nexus X2. E-mail notification, booking schedule, low noise levels and low energy consumption are only a few of the features ...



1990 Microcycler: Eppendorf introduces its first thermal cycler using water to heat and cool.



1993 Mastercycler 5330: Eppendorf introduces the first Mastercycler based on peltier technology.



1997 Mastercycler gradient: the first gradient thermal cycler on the market.



2003 Mastercycler ep: Fast heating/cooling rates and ultra quiet operation in a compact design.



2008 Mastercycler pro: New vapo.protect technology reduces evaporation.



2012 Mastercycler nexus: Low noise, low energy consumption, e-mail notification



2013 Mastercycler nexus X1: Speed, low energy consumption, low noise and e-mail notification



2014 Mastercycler nexus X2: Two blocks, low energy consumption, low noise and e-mail notification

> to be continued ...

Technical Specifications	Mastercycler [®] pro	Mastercycler [®] pro S	Mastercycler [®] pro 384	Mastercycler [®] nexus gradient	Mastercycler [®] nexus	Mastercycler [®] nexus eco**
Thermoblock	Aluminum	Silver	Aluminum	Aluminum	Aluminum	Aluminum
Sample Capacity	96 × 0.2 ml PCR tubes1 × 384-wellor 1 × 96-well PCR platePCR plate			96 × 0.2 mL PCR tubes or 1 × 96-well PCR plate or up to 71 x 0.5 mL PCR tubes		
Temperature control range of the block	4–99 °C		4−99 °C			
Temperature control mode	Fast, Standard, Safe			Fast, Standard, Safe		
Heating technology of the block	Peltier elements, Triple Circuit Technology			Peltier elements, Triple Circuit Technology		
Gradient block	over 12 columns over 24 column		over 24 columns	over 12 columns	_	_
Gradient range	1–20 °C	1–24 °C	1–20 °C	1–20 °C	_	_
Gradient temperature range		30-99 °C		30–99 °C	-	_
Lid temperature range	37–110 °C		37–110 °C			
Lid descent and closing pressure	vapo.protect technology with Thermal Sample Protection			flexlid technology with Thermal Sample Protection		
Block homogeneity: 20 °C–72 °C 95 °C	≤ ±0.3 °C ≤ ±0.4 °C		≤ ±0.3 °C ≤ ±0.4 °C			
Block temperature accuracy	± 0.2 °C		± 0.2 °C			
Heating rate*	ca. 4 °C/s	ca. 6 °C/s	ca. 4 °C/s		ca. 3 °C/s	
Cooling rate*	ca. 3 °C/s	ca. 4.5 °C/s	ca. 3 °C/s		ca. 2 °C/s	
Interfaces	Centro	onics, USB, CAN in, (CAN out	USB, Ethernet, CAN in, CAN out CAN in, CA		CAN in, CAN out
Dimensions (W \times D \times H)	26 × 41.5 × 37 cm		25 × 41.2 × 32.1 cm			
Weight			11 kg (24.2 lbs) 10.5 kg (23.1		10.5 kg (23.1 lbs)	
Power supply	230 V, 50–60 Hz		230 V, 50–60 Hz			
Max. power consumption		950 W		700 W 700 W		
Sound power levels	≤ 56 dB[A]		<pre>< 40 dB[A]</pre>			

Heating and cooling rates measured at block
** Unit can only be operated via a Mastercycler nexus unit (including flat, X1 versions) with control and display panel
Product appearance and/or specifications are subject to change without notice.

Mastercycler® nexus gradient eco**	Mastercycler [®] nexus flat	Mastercycler [®] nexus flat eco**	Mastercycler [®] nexus GSX1	Mastercycler [®] nexus SX1	Mastercycler [®] nexus GSX1e**	Mastercycler [®] nexus SX1e**
Aluminum	Aluminum	Aluminum	Silver	Silver	Silver	Silver
96 × 0.2 mL PCR tubes or 1 × 96- well PCR plate or up to 71 x 0.5 mL PCR tubes	4 slides or	equivalent	96	5 × 0.2 ml PCR tubes	or 1 × 96-well PCR pla	ate
	4–99°C			4–	99°C	
	Fast, Standard, Safe			Fast, Star	ndard, Safe	
Peltier eler	ments, Triple Circuit	Technology		Peltier elements, Tri	ple Circuit Technology	,
over 12 columns	_	_	over 12 columns	_	over 12 columns	_
1–20 °C			1–20 °C		1–20 °C	_
30–99 °C	_	_	30–99 °C	_	30–99 °C	-
	37–110 °C			37–	110 °C	
	lexlid technology wit ermal Sample Protect				nnology with nple Protection	
	≤ ±0.3 °C ≤ ±0.4 °C				0.3 °C 0.4 °C	
	± 0.2 °C			± 0	.2 °C	
	ca. 3 °C/s			ca.	5 °C/s	
	ca. 2 °C/s			ca. 3	.5 °C/s	
CAN in, CAN out	USB, Ethernet, CAN in, CAN out	CAN in, CAN out	USB, Ethernet, C	CAN in, CAN out	CAN in,	CAN out
	25 × 41.2 × 32.1 cm			25 × 41.2	2 × 32.1 cm	
10.5 kg (23.1 lbs)	11 kg (24.2 lbs)	10.5 kg (23.1 lbs)	11.2 kg (24.7 lbs)	10.7 kg	(23.6 lbs)
	230 V, 50–60 Hz			230 V,	50–60 Hz	
700 W	700 W	700 W	540 W 540 W		0 W	
	≤ 40 dB[A]				dB[A]	

G: Gradient block S: Silver block e: Eco version, needs to be connected to a Mastercycler nexus with control and display panel



4–99°C

	Fast, Sta	indard, Safe	
	Peltier elements, Tr	iple Circuit Technology	
over 8 columns	– over 8 columns –		
1–20 °C		1–20 °C	
30–99 °C	-	30–99 °C	-
	37-	110 °C	
		hnology with nple Protection	
		0.3 °C	
		0.4 °C	
	±	0.2 °C	
	ca.	3 °C/s	
	ca.	2 °C/s	
USB, Ethernet, C	AN in, CAN out	CAN in, (CAN out
	25 × 41	.2 × 33 cm	
11 kg (2	4.2 lbs)	10.7 kg (2	23.6 lbs)
	230 V,	50–60 Hz	
700	W	700	W
	< 40	 D dB[A]	



Frost & Sullivan[®] European PCR Instrumentation Green Excellence Award 2012

»Based on its recent analysis of the PCR instrumentation market, Frost & Sullivan recognizes Eppendorf with the 2012 European Green Excellence Award for its Mastercycler nexus. This eco-friendly instrument offers exceptional power-saving capability, e.g. by a standby feature and the amount of power consumed overall.«

Mastercycler® nexus GX2 6336 000.015 6336000023 Mastercycler® nexus X2 6337 000.019 6337000027 Mastercycler® nexus X2e* 6338 000.012 6338000020 Mastercycler® nexus SXe* 6339 000.016 6339000024 Mastercycler® nexus GSX1 6345 000.010 6345000028 Mastercycler® nexus GSX1e* 6346 000.013 6346000021 Mastercycler® nexus GSX1e* 6347 000.017 6347000025 Mastercycler® nexus GSX1e* 6347 000.017 6347000025 Mastercycler® nexus GSX1e* 6331 000.017 6331000029 Mastercycler® nexus gradient 6331 000.017 6331000026 Mastercycler® nexus gradient eco* 6332 000.018 6333000022 Mastercycler® nexus gradient eco* 6332 000.010 6332000026 Mastercycler® nexus flat 6335 000.011 633000026 Mastercycler® nexus flat 6335 000.013 633000026 Mastercycler® nexus flat eco* 6330 000.013 633000026 Mastercycler® nexus flat eco* 6330 000.013 633000021 Complete Mastercycler® nor S and Control Panel 6321 000.515 950040025 Mastercycler® pro S and Control Panel <th>Ordering information</th> <th>International Order no.</th> <th>North America Order no.</th>	Ordering information	International Order no.	North America Order no.
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Temperature Verification System with 384 well sensor plate6328 000.0146328000014CycleManager pro, incl. installation manual, online help, and connection cable5349 810.001950017007	Self test dongle	6320 071.001	950030040
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CycleManager pro, incl. installation manual, online help, and connection cable 5349 810.001 950017007	Temperature Verification System with 384 well sensor plate	6328 000.014	6328000014
	CycleManager pro, incl. installation manual, online help, and connection cable	5349 810.001	950017007
	CycleManager pro, incl. installation manual, online help	5349 820.007	950017202

* To run a Mastercycler® nexus with the suffix »eco« or »e«, a Mastercycler® nexus model without such a suffix is needed. Up to 2 units with the suffix »eco« or »e« can be connected to a Mastercycler® nexus without such a suffix. ** A Control Panel or CycleManager pro software (both sold separately) is required for operation. CAN_Bus connection cables are required to link cyclers together as a network.

eppendorf

Ordering information	International Order no.	North America Order no.
0.1 mL Eppendorf PCR Tubes		
PCR Tube Strips 0.1 mL, without caps (10×12 pieces)	0030 124.804	0030124804
PCR Tube Strips 0.1 mL + Cap Strips, domed (10 × 12 pieces each)	0030 124.812	0030124812
PCR Tube Strips 0.1 mL + Cap Strips, flat (10×12 pieces each)	0030 124.820	0030124820
0.2 mL Eppendorf PCR Tubes		
0.2 mL PCR Tubes, thinwalled with hinged lid (1000 tubes)	0030 124.332	951010006
8tube strip, for 0.2 mL PCR Tubes (10 \times 12 pieces)	0030 124.359	951010022
0.5 mL Eppendorf PCR Tubes		
0.5 mL PCR Tubes, thinwalled with lid (500 tubes)	0030 124.537	0030124537
Cap Strips, Racks, Films & Foils		
Cap Strips, domed (10 × 12 pieces)	0030 124.839	0030124839
Cap Strips, flat (10 × 12 pieces)	0030 124.847	0030124847
PCR Rack, 10 pcs.	0030 124.545	0030124545
Heat Sealing Film, 100 pcs.	0030 127.838	0030127838
Heat Sealing Foil, 100 pcs.	0030 127.854	0030127854
PCR Film (adhesive), 100 pcs.	0030 127.781	0030127781
PCR Foil (adhesive), 100 pcs.	0030 127.790	0030127790
twin.tec PCR Plates		
Eppendorf twin.tec [®] PCR Plate 96, skirted, clear 25 pcs.	0030 128.648	951020401
Eppendorf twin.tec [®] PCR Plate 96, semi-skirted, clear 25 pcs.	0030 128.575	951020303
Eppendorf twin.tec [®] PCR Plate 96, unskirted low profile, clear 20 pcs.	0030 133.307	0030133307
Eppendorf twin.tec [®] PCR Plate 96, unskirted low profile, clear (divisible) 20 pcs.	0030 133.358	0030133358
Eppendorf twin.tec [®] PCR Plate 96, unskirted low profile, blue (divisible) 20 pcs.	0030 133.382	0030133382
Eppendorf twin.tec $^{\circ}$ PCR Plate 96, unskirted (250 μ L), clear, 20 pcs.	0030 133.366	0030133366
Eppendorf twin.tec $^{\circ}$ PCR Plate 96, unskirted (250 μ L), clear (divisible) 20 pcs.	0030 133.374	0030133374
Eppendorf twin.tec $^{\circ}$ PCR Plate 96, unskirted (250 μ L), blue (divisible) 20 pcs.	0030 133.404	0030133404
Eppendorf twin.tec [®] PCR Plate 384, clear, 25 pcs.	0030 128.508	951020702
Eppendorf twin.tec [®] microbiology PCR Plate 96, skirted, clear, 10 pcs.	0030 129.300	0030129300
Eppendorf twin.tec [®] microbiology PCR Plate 96, semi-skirted, clear, 10 pcs.	0030 129.326	0030129326
Eppendorf twin.tec [®] microbiology PCR Plate 384, clear, 10 pcs.	0030 129.342	0030129342
Eppendorf twin.tec® PCR Plates 96 LoBind, semi-skirted, colorless, 25 pcs.	0030 129.504	0030129504
Eppendorf twin.tec [®] PCR Plates 96 LoBind, skirted, colorless, 25 pcs	0030 129.512	0030129512

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