

Eppendorf Mastercycler nexus PCR Thermal Cycler

The Mastercycler nexus brings reliability and ease of use along with low energy consumption when it comes to the daily routine of PCR. Easy expansion to 3 units with a small footprint fits perfectly on any lab bench. The flexlid accommodates all types of consumables, from low volume all the way up to 0.5 mL PCR tubes.

Rating: Not Rated Yet

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Manufacturer [Eppendorf](#)

Description

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Description

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The new Mastercycler X1 combines the modern and intuitive software with a fast 96-well silver block for increased heating and cooling rates.

Optimization of PCR performance and ease of operation are important factors when purchasing a thermal cycler. However, consideration of power consumption and noise generation has increased significance. Instruments are often continually in use or kept in standby mode over long periods of time which can increase power usage in the lab substantially. Figure 1 depicts the energy efficiency of the Mastercycler nexus both in standby mode and idle and during a typical PCR run (See application note 243 for more information).

Figure 1: Power consumption of the thermal cyclers in standby and idle state. Standby function was only available on Mastercycler nexus, V and T.

Figure 2: Power consumption of the thermal cyclers in kilowatt hours [kWh] during the run of a typical PCR program.

Features

- Intuitive graphic programming with protocol templates for ease of use.
- Energy Saver: Small footprint, low energy consumption, stand-by function
- Screen Saver option that serves as a booking schedule.
- 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
- Silver block for fastest heating and cooling rates

Specification

	Mastercycler nexus gradient	Mastercycler nexus SX1	Mastercycler nexus GSX1	Mastercycler nexus flat	Mastercycler nexus eco	Mastercycler nexus gradient eco	Mastercycler nexus SX1e	Mastercycler nexus GSX1e	Mastercycler nexus flat eco
® nexus									
Aluminum	Aluminum	Silver	Silver	Aluminum	Aluminum	Aluminum	Silver	Silver	Aluminum
96x 0.2 mL PCR tubes or 71x 0.5 mL PCR tubes or 1x 96 well PCR plate	96x 0.2 mL PCR tubes or 71x 0.5 mL PCR tubes or 1x 96 well PCR plate	96x 0.2 mL PCR tubes or 1x 96 well PCR plate	96x 0.2 mL PCR tubes or 1x 96 well PCR plate	4 slides or equivalent	96x 0.2 mL PCR tubes or 71x 0.5 mL PCR tubes or 1x 96 well PCR plate	96x 0.2 mL PCR tubes or 71x 0.5 mL PCR tubes or 1x 96 well PCR plate	96x 0.2 mL PCR tubes or 1x 96 well PCR plate	96x 0.2 mL PCR tubes or 1x 96 well PCR plate	4 slides or equivalent
4-99°C	4-99°C	4-99°C	4-99°C	4-99°C	4-99°C	4-99°C	4-99°C	4-99°C	4-99°C
Fast, Standard, Safe	Fast, Standard Safe; all in gradient mode	Fast, Standard, Safe	Fast, Standard, Safe; all in gradient mode	Fast, Standard, Safe	Fast, Standard, Safe	Fast, Standard, Safe; all in gradient mode	Fast, Standard, Safe	Fast, Standard, Safe; all in gradient mode	Fast, Standard, Safe
Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology	Peltier Elements, Triple Circuit Technology
No	Yes	No	Yes	No	No	Yes	No	Yes	No
N/A	Over 12 columns	N/A	Over 12 columns	N/A	N/A	Over 12 columns	N/A	Over 12 columns	N/A
N/A	1-20°C	N/A	1-20°C	N/A	N/A	1-20°C	N/A	1-20°C	N/A
N/A	30-99°C	N/A	30-99°C	N/A	N/A	30-99°C	N/A	30-99°C	N/A
37-110°C	37-110°C	37-110°C	37-110°C	37-110°C	37-110°C	37-110°C	37-110°C	37-110°C	37-110°C
Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening	Flex lid for ergonomic lid opening
20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C	20-72°C < ± 0.3°C, 95°C < ± 0.4°C %± 0.2°C
approx. 3°C/s	approx. 3°C/s	approx. 5°C/s	approx. 5°C/s	approx. 3°C/s	approx. 3°C/s	approx. 3°C/s	approx. 5°C/s	approx. 5°C/s	approx. 3°C/s
approx. 2°C/s	approx. 2°C/s	approx. 3.5°C/s	approx. 3.5°C/s	approx. 2°C/s	approx. 2°C/s	approx. 2°C/s	approx. 3.5°C/s	approx. 3.5°C/s	approx. 2°C/s
USB, Ethernet, CAN in/out	USB, Ethernet, CAN in/out	USB, Ethernet, CAN in/out	USB, Ethernet, CAN in/out	USB, Ethernet, CAN in/out	CAN in/out	CAN in/out	CAN in/out	CAN in/out	CAN in/out
700 W	700 W	540 W	540 W	700 W	700 W	700 W	540 W	540 W	700 W
25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm	25 x 41.2 x 32.1 cm
24 lb / 10.9 kg	24 lb / 10.9 kg	24.7 lb / 11.2 kg	24.7 lb / 11.2 kg	24.2 lb / 11 kg	23 lb / 10.4 kg	23 lb / 10.4 kg	23.6 lb / 10.7 kg	23.6 lb / 10.7 kg	23.1 lb / 10.5 kg

Reviews

There are yet no reviews for this product.