

Technical data

Basic unit	
Thermal block	Solid sterling silver, gold-plated
Sample capacity	<ul style="list-style-type: none"> ▪ 96 SPR block; 96 × 0.2 ml ▪ 48 SPR block; 48 × 0.2 ml ▪ 36 LPR block; 36 × 20 µl ▪ 96 LPR block; 96 × 20 µl
Low-Profile-Rapid blocks (LPR)	
Heating rate	15°C/sec max.
Cooling rate	10°C/sec max.
Standard-Profile-Rapid blocks (SPR)	
Heating rate	12°C/sec max. (48 SPR) and 8°C/sec max. (96 SPR)
Cooling rate	8°C/sec max. (48 SPR) and 6°C/sec max. (96 SPR)
Temperature control mode	<ul style="list-style-type: none"> ▪ Block Control ▪ (Simulated) Tube Control
Sample block temperature range	4°C – 105°C
Control accuracy	< ± 0.2°C at 72°C
Block homogeneity	< ± 0.3°C at 72°C
Lid	<ul style="list-style-type: none"> ▪ Can be heated up to 120°C ▪ Adjustable contact pressure
User interface	<ul style="list-style-type: none"> ▪ PC via included software ▪ Alternative via HID-Pro 320
Number of programs	Nearly unlimited; 500 on HID-Pro 320
Other technical data	
Dimensions (W x H x D)	280 × 290 × 250 mm
Weight	12 kg
Power supply	100 – 240 V ± 15% (47 – 63 Hz)
Power consumption	800 W
Warranty	
Basic unit	2 years
Thermal blocks	2 years
Remarks	
Licensed and authorized thermal cyclers	

SpeedCycler² | High performance thermal cycler

- *rapid*PCR in less than 8 minutes
- Low sample consumption starting at 2.0 µl
- Small footprint PCR system with full flexibility



SpeedCycler² | Ultra high performance thermal cycler

Ultra high performance thermal cycler

With the SpeedCycler² Analytik Jena has launched the second generation of the original SpeedCycler technology. The device is once more faster compared to its predecessor. Extraordinary high heating and cooling rates of up to 15°C/sec and 10°C/sec, respectively, are realized. That makes the SpeedCycler² to the fastest available thermal cycler worldwide.

Features

- *rapidPCR* with heating and cooling rates of up to 15°C/sec and up to 10°C/sec
- Outstanding heat transfer through SAC-technology
- *rapidPCR* in less than 8 minutes
- Reduced primer mismatching

A smaller footprint, the modular design, the external control panel and, last but not least, the ultra high performance distinguishes the SpeedCycler² from his larger brother AlphaSC[®]. The system is ideal either as space saving single thermal cycler or as a modular system expandable to full cycler networks. It grows with the requirements of its user. Starting with just a basis unit, which can be controlled via PC or the new external user-interface HID-Pro 320, the cycler can be expanded with additional basis units to build up complete cycler networks.

Features

- Control via the portable user-interface HID-Pro 320
- Small footprint satellite system, expendable to cycler networks



- Block exchange within seconds: sample blocks for up to 36, 48 and 96 samples are available

For the SpeedCycler² various, interchangeable blocks are available. Two different types, the Standard-Profile-Rapid (SPR) and the Low-Profile-Rapid (LPR) blocks, are applicable to the device system. Therefore standard PCR consumables can be used as well as low-profile (LP) PCR consumables.

Features

- Four different blocks available (SPR: 48 SPR Block, 96 SPR Block | LPR: 36 LPR Block, 96 LPR Block)
- Solid gold-coated, sterling-silver sample block
- Flexible use of different consumables
- Optimized for low reagent consumption and reduced running costs

The SpeedCycler² has been optimized for very small sample consumption and the use of inexpensive standard PCR reagents. Costly and often limiting chemical additives can be consciously avoided and are not necessary to perform a *rapidPCR* amplification. Furthermore, the higher cooling rates result in a significantly improved specificity of the PCR products compared to standard thermal cyclers.

External user-interface HID-Pro 320

The new portable user-interface HID-Pro 320 makes a PC superfluous and operations exceptionally easy. Through its extra large 5.7" touchscreen no keyboard or mouse is required for operation. Exchange of programs to other cyclers or export of data of executed PCR runs are not limited through an USB and LAN port.



- User-friendly and versatile control panel HID-Pro 320 with 5.7" touchscreen

Features

- Windows CE based software
- USB and LAN port for easiest data change
- Multilingual Software
- Extra large 5.7" color touchscreen

