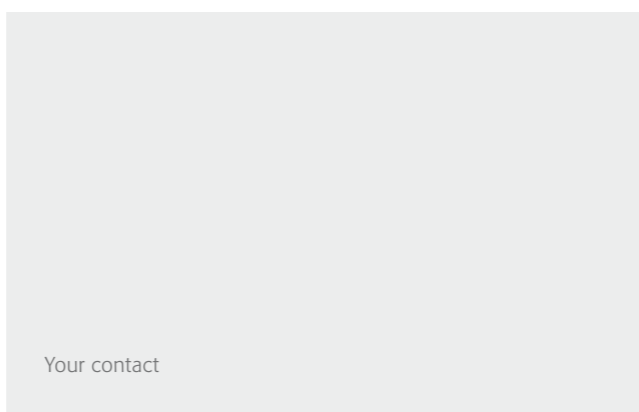


AlphaSC® | High end thermal cycler

- *rapidPCR* with true heating and cooling rates of up to 12°C/sec and 8°C/sec
- User-friendly operation by 5.7" large touchscreen and windows based software
- Interchangeable block system with automatic block detection



AlphaSC® | High end thermal cycler

The AlphaSC® combines best of two worlds, the flexibility of a standard cycler with interchangeable blocks for standard PCR plastic and the speed of *rapid*PCR with all its advantages. Applicable in the AlphaSC® are the Standard-Profile-Rapid (SPR) blocks as well as the Low-Profile-Rapid (LPR) blocks. Thus standard PCR consumables are usable as well as the Low-Profile PCR consumable, which are optimized for low sample consumption. In one word, the AlphaSC® is the most advanced thermal cycler currently available on the market.



▲ Dual Mix 48 SPR/96 LPR Block

Features

- Low-Profile-Rapid (LPR) blocks for 2–20 µl
- Standard-Profile-Rapid (SPR) blocks for 0.2 ml tubes and plates
- Four different interchangeable blocks available
- Solid gold coated, sterling-silver sample blocks
- Ultrathin-walled, patented low-profile microplates and strips

User-friendly operation

Its internal user-interface, with the extra large 5.7" touchscreen, makes operation exceptionally easy. The Windows CE based software convinces with typical Windows functions, feeling and a clearly arranged menu bar. Programs can be individually stored and sorted in directories of choice. Exchange of programs to other cyclers or export of data of executed PCR runs is not limited through an USB port. This also offers an easy access for software updates, as well as the possibility of expansion of the memory capacity. The build in power failure function restarts the cycler automatically. To eliminate any possible unspecific annealing the software restarts with the denaturing step of the last active cycle. Operation language can be easily changed by a click of a button.

Features

- Extra large 5.7" touchscreen (color)
- Windows CE based software
- Exceptionally easy operation
- USB port for easiest data exchange
- Power failure function
- Multilingual software: English, German, Russian, Greek, Spanish; others to come

Four thermal blocks

The AlphaSC® offers a choice of four different *rapid*PCR blocks. All blocks are made of solid sterling-silver, coated by a gold layer, to protect the valuable silver block against corrosion. The independently controlled dual blocks can perform distinct PCR protocols. All thermal blocks can be quickly exchanged without any tools needed.

Features

- Dual 48 SPR block; 48 × 0.2 ml and 48 × 0.2 ml
- Single 96 SPR block; 96 × 0.2 ml
- Dual Mix 48 SPR/96 LPR block; 48 × 0.2 ml and 96 × 20 µl
- Dual 96 LPR block; 96 × 20 µl and 96 × 20 µl

Coloration

The AlphaSC® is available in trendy Analytik Jena black-red or classic "bio" turquoise with high-gloss finish.

Please specify your choice of color when ordering.

The following colors are available for selection:



Technical data

Basis unit

Thermal block	Solid sterling-silver, gold-coated
Sample capacity	<ul style="list-style-type: none"> ▪ 48 × 0.2 ml and 48 × 0.2 ml ▪ 96 × 0.2 ml ▪ 48 × 0.2 ml and 96 × 20 µl ▪ 96 × 20 µl and 96 × 20 µl

Low-Profile-Rapid blocks (LPR)

Heating rate	12°C/sec max.
Cooling rate	8°C/sec max.

Standard-Profile-Rapid blocks (SPR)

Heating rate	10°C/sec max.
Cooling rate	6°C/sec max.

System parameters

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"> ▪ Heated lid up to 120°C ▪ Adjustable contact pressure
Display	5.7" touchscreen, color
No. of programs	Nearly unlimited, 500 on device

Other technical data

Dimensions (W × H × D)	300 × 290 × 380 mm
Weight	15 kg
Power supply	100–240V ± 15%, 47–63 Hz
Power consumption	1500 W

Warranty

Basic unit	2 years
Thermal blocks	2 years

Remarks

Licensed and authorized thermal cycler