

AlphaSC

- High End Thermal Cycler based on rapidPCR
- 4 different, fully interchangeable **Low-Profile-Rapid (LPR)** blocks and **Standard-Profile-Rapid (SPR)** blocks available
- Standard consumables are useable, as well as low-profile PCR consumables, which are optimized for low sample consumption
- Exceptionally easy operation by using the Windows CE based software with an extra large 5.7" touch screen
- Contains a power failure function

System and application parameter

Block homogeneity	< ± 0.3 °C @ 72 °C
Control accuracy	< ± 0.2 °C @ 72 °C
Block temperature	4 °C – 105 °C
Time inc/dec	± 0.1 to 1 sec/cycle
Temperature inc/dec	± 0.1 to 1 °C/cycle
Thermal source	High-power, long-life peltier element
Lid	<ul style="list-style-type: none"> ▪ Heated lid, up to 120 °C ▪ SPS technology ▪ Automated contact pressure
Temperature control mode	<ul style="list-style-type: none"> ▪ Block control ▪ (simulated) Tube control
Number of programs	Nearly not limited
Running time	<ul style="list-style-type: none"> ▪ On average: 10 – 40 min ▪ 30 cycles
Display	5.7" touch screen, color

Parameter	LPR blocks	SPR blocks
Sample throughput	Typical 288 - 576 samples/h	Typical 48 - 192 samples/h
Sample volume	2 – 17 µl (max. 20 µl)	Up to 50 µl (max. 60 µl)
Heating rate	12 °C/sec max. (0.1 to 12 °C/sec)	10 °C/sec max. (0.1 to 10 °C/sec)
Cooling rate	8 °C/sec max. (0.1 to 8 °C/sec)	6 °C/sec max. (0.1 to 6 °C/sec)

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Other technical data

Data exchange	Yes
Interface	1x USB port
Control	Integrated Windows CE based software
Dimensions (W x H x D)	300 mm x 290 mm x 380 mm
Weight	Approx. 18 kg
Power supply	100 – 240 V ± 15% (47 – 63 Hz)
Power consumption	1500 W (max)

Guarantee

Basic unit	2 years warranty
Thermal blocks	2 years warranty

Available thermal blocks

Block	Specification	Sample capacity	Order number
Dual 48	2x SPR block	48 x 0.2 ml 48 x 0.2 ml	844-60030-0
Single 96	1x SPR block	96 x 0.2 ml	844-60031-0
Dual Mix	1x SPR block 1x LPR block	48 x 0.2 ml 96 x 20 µl	844-60032-0
Dual 96	2x LPR block	96 x 20 µl 96 x 20 µl	844-60033-0



Subject to changes in design and scope of delivery as well as further technical development!