

13 Technical data

13.1 Power supply

Voltage	100 to 130 V 200 to 240 V
Frequency	50 Hz to 60 Hz
Power consumption	950 W
Overvoltage category	II (IEC 610 10-1)
Degree of contamination:	2
Protection class	1

13.2 Weight/dimensions

Dimensions (W x D x H)	26.0 cm x 41.5 cm x 37.0 cm (without control panel) 26.0 cm x 50.0 cm x 44.5 cm (with lid in cleaning position) Depth with the control panel connected: + 14 cm.
Weight	18.5 kg (without control panel)

13.3 Ambient conditions

General operation	+15 °C to +35 °C to 70 % rel. humidity up to 2000 m above sea level (approx. 80 kPa)
Storage conditions	-20 °C to +70 °C to 85 % rel. humidity

13.4 Application parameters

Parameter	Mastercycler pro	Mastercycler pro S	Mastercycler pro 384
Sample capacity	96 x 0.2 ml PCR tubes or a 96-well PCR plate (unskirted, semi-skirted, skirted; according to SBS standard)		one 384-well PCR plate
Temperature control range of the block	4 °C to 99 °C		
Gradient range	1 °C to 20 °C	1 °C to 24 °C	1 °C to 20 °C
Temperature range of the gradient	30 °C to 99 °C		
Temperature control range of the lid	37 °C to 110 °C		
Block homogeneity *			
35 °C	≤ ±0.3 °C		
90 °C	≤ ± 0.4 °C		
Control accuracy*	±0.2 °C		
Heating rate**	approx. 4 °C/s	approx. 6 °C/s	approx. 4 °C/s
Cooling rate**	approx. 3 °C/s	approx. 4.5 °C/s	approx. 3 °C/s

* with deactivated gradient function

** measurements on the block

13.5 Control panel

Number of Mastercycler pro devices that can be controlled the control panel	1 to 5
Number of programs	> 700
Number of folders	> 100
Max. number of cycles	99 (1 to 20 temperature control steps per cycle)
Dimensions (W x D x H)	25 cm x 16.5 cm x 11 cm
Weight	1.7 kg
Connections	2x USB for mouse, printer, USB storage medium and self test USB key 1x MMC slot
Power source/consumption	Occurs over connected Mastercycler pro