

9 Technical data

9.1 Power supply

Mains connection:	100 to 240 V \pm 10 %, 50 to 60 Hz
Fuses:	see nameplate or label on the rear of device
Power consumption:	90W

9.2 Ambient conditions

Environment:	For indoor use only
Ambient temperature:	4 to 35 °C
Relative humidity:	70 % max.

9.3 Weight / dimensions

Dimensions (W x D x H):	220 x 250 x 125 mm
Weight basic device:	3.2 kg

9.4 Application parameters

Temperature control range:	
Exchangeable thermoblocks for micro test tubes	13 °C below room temperature to 99 °C
Exchangeable thermoblocks for micro test plates	10 °C below room temperature to 99 °C
Temperature accuracy:	
Exchangeable thermoblock for 1.5 ml micro test tubes	
at nominal values between 20 °C and 45 °C	\pm 0.5 °C
at nominal values between <20 °C and >45 °C	\pm 2.0 °C
Exchangeable thermoblocks for micro test plates	
at nominal values <70 °C	\pm 2.0 °C
at nominal values between 70 °C and 99 °C	-5.0 °C

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Operating Manual

Heating rate:	approx. 5 °C/min The temperature changes in the filled tubes are slower.
Cooling rate:	2 to 3 °C/min
Cooling rate from room temperature to 13 °C below room temp:	0.5 to 1.0 °C/min
Mixing frequencies for:	
Exchangeable thermoblocks 0.5 ml	300 to 1,500 1/min
Exchangeable thermoblocks 1.5 and 2.0 ml	300 to 1,400 1/min
Microplates	300 to 1,400 1/min
Falcon tubes	300 to 750 1/min
Cryo tubes	300 to 1,400 1/min

9.5 Additional data

9.5.1 Interfaces

EDP connection:	RS-232, Sub-D9 male
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- i** Only connect devices to interfaces that meet the IEC 950/EN 60950 (UL 1950) standards.

9.5.2 Time interval

Programmable time interval:	1 min to 99:59 hours, infinitely adjustable
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