

## 14 Technical data

### 14.1 Dimensions

Length	38.5 cm
Width	24.5 cm
Height	23.0 cm
Height with lid open	36.8 cm

### 14.2 Weight

Weight	7.25 kg
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### 14.3 Mains/power supply

Mains/power supply voltage	100 V – 240 V $\pm$ 10 %
Mains/power frequency	50 Hz – 60 Hz
Power consumption	max. 500 W
Electromagnetic compatibility	The device meets the following requirements: IEC/EN 61326-1 IEC/DIN EN 55011 Class B - residential area
Overvoltage category	II
Pollution degree	2
Protection class	I

### 14.4 Ambient conditions

#### Operation

Ambience	For indoor use only. The ambience must not be wet.
Ambient temperature	15 °C – 35 °C
Relative humidity	max. 75 %
Atmospheric pressure	Up to 2000 m above MSL (approx. 80 kPa)

## Transport

Air temperature	-25 °C – 60 °C
Air temperature for air freight	-40 °C – 55 °C
Relative humidity	10 % – 95 %
Atmospheric pressure	30 kPa – 106 kPa

## Storage

Air temperature	-20 °C – 70 °C
Relative humidity	max. 95 %

## 14.5 Interfaces

USB	1x 2.0 Type A
Ethernet	<ul style="list-style-type: none"> <li>• 1x RJ45 plug for the connection to the VisioNize Lab Suite (main cycler)</li> <li>• Compatibility with IEEE 802.3 Ethernet switch at a data transfer rate of 10/100 MBit/s or 10/100/1000/... MBit/s</li> </ul>

## 14.6 Noise level

The noise level was measured in a method using an enveloped surface with accuracy class 2 (DIN EN ISO 3744) at a distance of 1 m to the device for a sound field that is substantially free of obstacles above a reflective plane.

Idle: continuous idle state	< 30.2 dB(A)
Default PCR execution (temperature control cycle)	< 40.5 dB(A)
Continuous cooling cycle at 4° C	< 40.9 dB(A)

## 14.7 Application parameters

Thermoblock	Aluminum 96 wells
Sample capacity	<ul style="list-style-type: none"> <li>• 96x 0.1 mL PCR tubes</li> <li>• 96x 0.2 mL PCR tubes</li> <li>• 1x 96-well PCR plate (unskirted, semi-skirted, skirted), high-profile and low-profile</li> </ul>
Temperature control range of the thermoblock	4 °C – 99 °C
Ramp rate (heating) (measured on the thermoblock)	3.3 °C/s

Ramp rate (cooling) (measured on the thermoblock)	1.5 °C/s
Temperature homogeneity of the thermoblock (with gradient function switched off) at 20 °C – 72 °C at 72 °C – 95 °C	±0.2 °C ±0.3 °C
Control accuracy (with gradient function switched off)	±0.15 °C
Gradient spread	max. 30 °C
Gradient temperature control range	30 °C – 99 °C
Heated lid temperature control range	37 °C – 110 °C