

Biometra TOne
PCR Thermal Cycler



Technical Data

Biometra TOne

General

- Stand-alone control by 7" color touchscreen or remote control by cycler network
- Whisper Quiet with max. 45 dBA
- Small footprint and minimal clearance zone
- Sample block in 96 well format with or without gradient (over 12 columns)
- HPSL technology for ideal constant contact pressure independent of the used consumable
- Suitable for low-profile and high-profile plastic with or without skirt, as well for semi-skirt

Thermal block

Sample block	Aluminum sample block with special alloy
Block capacity	96 x 0.2 ml tubes, 96 well microplates or 8 well strips
Sample size	5 to 50 µl
Block exchange	No
Number of blocks	1
Max. heating ¹	4.0 °C/s
Average heating ¹	3.7 °C/s
Max. cooling ¹	3.3 °C/s
Average cooling ¹	3.0 °C/s
Tempering method	Peltier elements
Standby temperature	Yes, down to 4 °C
Temperature control mode	Block control
Adjustable temperature range	3 °C to 99 °C
Temperature uniformity ²	95°C ± 0.60 °C after 15 sec 70°C ± 0.30 °C after 15 sec 55°C ± 0.20 °C after 15 sec
Temperature control accuracy	± 0.1 °C
Gradient ³	Yes (Semi Linear Gradient Tool)
Max./Min. Gradient ³	20 °C / 0.1 °C
Adjustable gradient range ³	12 columns from 20 °C to 99 °C

¹ measured at cavity wall of the block

² after 15 sec

³ only models with gradient (G)

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Heated lid

Heated lid	High-Precision Smart Lid (HPSL)
Lid temperature	30 °C to 110 °C
Contact pressure	Approx. 8 kg, manual with integrated slip clutch for constant contact pressure independent of the used consumables

Control

Control	Stand-alone or remote control via tablet PC
Control and analysis software	Remote Control App
Operating system	App for iOS or Android
Minimum requirement of PC	iOS 8 or Android 4.0
Language	English, German, Chinese
Display	7" color touchscreen
Export function	Yes
Power fail function	Yes
Quick start function	User-specific quick start
Time inc	1 to 240 sec/cycle
Temperature inc/dec	±0.1 to 20 °C/cycle
Memory capacity	350 programs in up to 90 user directories
Features	<ul style="list-style-type: none"> ▪ Extended Self Test ▪ Graphical or spreadsheet programming ▪ Multip-step programming ▪ Incubation mode ▪ Protocol templates ▪ Program preview

Dimensions

Weight	Approx. 11.5 kg
Dimensions (W x L x H)	260 mm x 430 mm x 241 mm
Required clearance zone	10 cm behind rear side of device. When operating several units side by side, an additional 10 cm between the units.

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Additional technical data

Interface	<ul style="list-style-type: none">▪ USB-A (front side): connection of an USB memory stick▪ Ethernet (back side): connection to a network
Fuses	2x T 8A H 250 V
Power supply	100 V, 115 V oder 230 V $\pm 10\%$, 50 – 60 Hz
Power consumption	Max. 550 W
Noise emission	Max. 45 dBA
Operation conditions	15 °C to 35 °C, max. 70% humidity, max. 2000 m NN, overvoltage category II, pollution degree 2, IP20
Warranty	2 years warranty on device system

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www.wolflabs.co.uk

Tel : 01759 301142

Fax : 01759 301143

sales@wolflabs.co.uk

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