

TADVANCED

No Compromises in Technology



- **RAPID:** High-speed sample block with unbeatable ramping rate
- **EXCELLENT:** Temperature uniformity and no over- or undershooting for maximum reproducibility
- **EXACT:** Accurate adjustment of the gradient temperature profile with the „Linear Gradient Tool“
- **SMART:** Innovative design with high-quality components „Made in Germany“
- **QUIET:** Low-noise operation thanks to the latest technology
- **COMFORTABLE:** 7" touch color display with intuitive software interface
- **FLEXIBLE:** Individual assignment of rights for different user groups

Biometra

PRODUCT LINE

The new generation thermal cycler

Technical Data

Name	TADVANCED 96	TADVANCED 96 G (Gradient)
Capacity	96 tubes 0.2 ml 96 well microplates 12 strips 8 well	96 tubes 0.2 ml 96 well microplates 12 strips 8 well
Block	Aluminum	Aluminum
Block coating	Special Alloy	Special Alloy
Max. heating rate*	Appr. 6.0 °C/sec	Appr. 6.0 °C/sec
Avg. Heating rate*	Appr. 5.5 °C/sec	Appr. 5.5 °C/sec
Max./min. Gradient span	-	Appr. 30 °C/0.1 °C
Gradient temperature range	-	20 °C to 99 °C
Temperature uniformity	95°C Appr. +/- 0.60 °C after 15 s	95°C Appr. +/- 0.60 °C after 15 s
	70°C Appr. +/- 0.30 °C after 15 s	70°C Appr. +/- 0.30 °C after 15 s
	55°C Appr. +/- 0.20 °C after 15 s	55°C Appr. +/- 0.20 °C after 15 s
Temperature range	3 °C to 99 °C	3 °C to 99 °C
Lid temperature range	30 °C to 110 °C	30 °C to 110 °C
Control accuracy	+/- 0.1 °C	+/- 0.1 °C
Software	User specific quick start of the last five programs, program preview prior to start, toggle between spreadsheet and graphical programming mode, Linear Gradient Tool, generate service info files (SINF), extended self-test, adjustable ramp rates, view gradient temperature graph, PC control via Ethernet, comprehensive user administration tool with individual rights settings	User specific quick start of the last five programs, program preview prior to start, toggle between spreadsheet and graphical programming mode, Linear Gradient Tool, generate service info files (SINF), extended self-test, adjustable ramp rates, view gradient temperature graph, PC control via Ethernet, comprehensive user administration tool with individual rights settings
Program memory	Total capacity of 350 programs in up to 30 user directories	Total capacity of 350 programs in up to 30 user directories
Display	7" Color Touchscreen	7" Color Touchscreen
Auto restart after power failure	Yes	Yes
High Performance Smart Lid (HPSL) Technology	Yes	Yes
Power consumption	850 Watt	850 Watt
Power supply	100, 115, 230 Volt, 50-60 Hz	100, 115, 230 Volt, 50-60 Hz
Noise emission	Very low, max. 45 dB	Very low, max. 45 dB
Interfaces	USB A, Ethernet	USB A, Ethernet
Working conditions	15 °C to 35 °C, 70 % air humidity, max. 2000 m NN	15 °C to 35 °C, 70 % air humidity, max. 2000 m NN
Dimensions (WxDxH)	277 mm x 457 mm x 264 mm	277 mm x 457 mm x 264 mm
Dimensions (WxDxH) with lid opened	277 mm x 457 mm x 414 mm	277 mm x 457 mm x 414 mm
Weight	15 kg	15 kg
Order information		
Order number	846-x-070-111 x = 2 for 230V, 4 for 115 V, 5 for 110V	846-x-070-101 x = 2 for 230V, 4 for 115 V, 5 for 110V

* measured inside the block

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

