

	<b>Biometra TAdvanced</b>	<b>Biometra TAdvanced S</b>	<b>TProfessional</b>	<b>TProfessional Standard</b>	<b>TProfessional Basic</b>	<b>Biometra TRIO</b>	<b>TPersonal</b>	<b>TRobot</b>
<b>Features</b>	High Speed 7" Touch TFT Display Gradient version available	High Speed 7" Touch TFT Display Gradient version available	High Speed Large graphical Display Gradient version available Exchangeable Blocks	High Speed Large graphical Display Gradient version available	Large graphical Display Easy Spreadsheet programming Gradient version available	High Speed Large crystal clear Display Three independent blocks High parallel throughput	Compact footprint High capacity	Motorised lid Plate lifter
<b>Blocks exchangeable</b>	Yes	Yes	Yes	-	-	-	-	-
<b>Block formats</b>	60 well 96 well 384 well	96 well	60 well 96 well 384 well	60 well 96 well 384 well	96 well 96 well XL	3 x 30 well 3 x 48 well 3 x combi	20 well 48 well combi	96 well 384 well
<b>Program memory</b>	350 average programs, unlimited on USB	350 average programs, unlimited on USB	350 average programs	350 average programs	350 average programs	350 average programs	250 average programs	250 average programs; unlimited on PC
<b>Temperature range</b>	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C
<b>Temperature gradient**</b>	30 C	40 C	40 °C	40 °C	25 °C	Temperature Optimisation Step	-	-
<b>Cool samples to 4 °C</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Max. Heating*</b>	6.0 °C/sec	8.0 °C/sec	6.0 °C/sec	6.0 °C/sec	3.5 °C/sec	5.0 °C/sec	n.d.	n.d.
<b>Avg. Heating*</b>	5.5 °C/sec	7.0 °C/sec	5.0 °C/sec	5.0 °C/sec	3.0 °C/sec	4.2 °C/sec	3 °C / sec	3.7 °C / sec
<b>Max. Cooling*</b>	4.0 °C/sec	5.5 °C/sec	4.5 °C/sec	4.5 °C/sec	2.5 °C/sec	4.5 °C/sec	n.d.	n.d.
<b>Avg. Cooling*</b>	3.5 °C/sec	4.5 °C/sec	3.5 °C/sec	3.5 °C/sec	2.0 °C/sec	3.8 °C/sec	3 °C / sec	2.6 °C / sec
<b>Temperature Uniformity (15 sec after clock starts)</b>	+/- 0.20 °C at 55 °C +/- 0.30 °C at 70 °C +/- 0.60 °C at 95 °C	+/- 0.15 °C at 55 °C +/- 0.25 °C at 70 °C +/- 0.50 °C at 95 °C	+/- 0.15 °C at 55 °C +/- 0.25 °C at 70 °C +/- 0.50 °C at 95 °C	+/- 0.15 °C at 55 °C +/- 0.25 °C at 70 °C +/- 0.50 °C at 95 °C	+/- 0.20 °C at 55 °C +/- 0.30 °C at 70 °C +/- 0.60 °C at 95 °C	+/- 0.20 °C at 50 °C +/- 0.30 °C at 70 °C +/- 0.60 °C at 95 °C	± 0.5 °C	± 0.5 °C
<b>Control accuracy</b>	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C
<b>Display</b>	7" Touch color TFT Display	7" Touch color TFT Display	¼ VGA screen, 320 x 240 pixel	¼ VGA screen, 320 x 240 pixel	¼ VGA screen, 320 x 240 pixel	7" Touch color TFT Display	High brightness CFL backlight graphical LC Display, 256 x 64 dots	-
<b>Auto restart after power failure</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Programming modes</b>	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming Multi-Step programming	Spreadsheet programming	PC software
<b>Software options</b>	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, Protocol Wizard	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, Protocol Wizard	Toggle between spreadsheet and graphical mode, gradient temperature graph**, adjustable ramp rates, extended self test, service files, automatic block recognition, PC control	Toggle between spreadsheet and graphical mode, gradient temperature graph**, adjustable ramp rates, extended self test, service files, PC control	Toggle between spreadsheet and graphical mode, gradient temperature graph**, adjustable ramp rates, extended self test, service files, PC control	User specific quick start of the last five programs for each sample block, program preview prior to start, toggle between spreadsheet and graphical programming mode, Temperature Optimization Step (TOS), generate service info files (SINF), extended self-test, adjustable ramp rates, PC control via Ethernet, comprehensive user administration tool, Protocol Wizard	Adjustable ramp rates time increments, temperature increments	Adjustable ramp rates time increments, temperature increments
<b>Quick start of the last 5 programs</b>	Yes	Yes	Yes	Yes	Yes	Yes	-	-
<b>High Precision Smart Lid</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Lid temperature range</b>	30 – 110 °C	30 – 110 °C	30 – 99 °C	30 – 99 °C	30 – 99 °C	30 – 110 °C	30 – 99 °C	30 – 99 °C
<b>Max. power consumption</b>	850 Watt	850 Watt	480 Watt	480 Watt	480 Watt	1000 Watt	250 Watt	270 Watt
<b>Noise emission</b>	max. 45 dB	max. 45 dB	Very low	Very low	Very low	max. 45 dB	Very low	Very low
<b>Interfaces</b>	USB A, Ethernet	USB A, Ethernet	RS232 serial port	RS232 serial port	RS232 serial port	USB A, Ethernet	RS232 serial port Centronix parallel port	RS232 serial port
<b>Dimensions (W x D x H)</b>	28 cm x 46 cm x 26 cm	28 cm x 46 cm x 26 cm	28 cm x 38 cm x 24 cm	28 cm x 38 cm x 24 cm	28 cm x 38 cm x 24 cm	30 cm x 41 cm x 25 cm	22 cm x 31 cm x 15 cm	17 cm x 23 cm x 20 cm

\* Measured inside the block \*\* Gradient feature only available for specific Thermocycler models.