

	TProfessional	TProfessional Standard	TProfessional Basic	T3000	TProfessional TRIO	TPersonal	TRobot
Features	High Speed Large graphical Display Gradient version available Exchangeable Blocks	High Speed Large graphical Display Gradient version available SL lid available	Large graphical Display Easy Spreadsheet programming Gradient version available	Three independent blocks High parallel throughput	High Speed Large crystal clear Display Three independent blocks High parallel throughput USB functions	Compact footprint High capacity	Motorised lid Plate lifter
Blocks exchangeable	Yes	-	-	-	-	-	-
Block formats	60 well 96 well 384 well	60 well 96 well 384 well	96 well 96 well XL	3 x 20 well 3 x 48 well 3 x combi	3 x 30 well 3 x 48 well 3 x combi	20 well 48 well combi	96 well 384 well
Program memory	350 average programs	350 average programs	350 average programs	250 average programs	350 average programs	250 average programs	250 average programs; unlimited on PC
Temperature range	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C	3 – 99 °C
Temperature gradient**	40 °C	40 °C	25 °C	-	Temperature Optimisation Step	-	-
Cool samples to 4 °C	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. Heating*	6.0 °C/sec	6.0 °C/sec	3.5 °C/sec	n.d.	5.0 °C/sec	n.d.	n.d.
Avg. Heating*	5.0 °C/sec	5.0 °C/sec	3.0 °C/sec	2.2 °C / sec	4.2 °C/sec	3 °C / sec	3.7 °C / sec
Max. Cooling*	4.5 °C/sec	4.5 °C/sec	2.5 °C/sec	n.d.	4.5 °C/sec	n.d.	n.d.
Avg. Cooling*	3.5 °C/sec	3.5 °C/sec	2.0 °C/sec	2.0 °C / sec	3.8 °C/sec	3 °C / sec	2.6 °C / sec
Temperature Uniformity (15 sec after clock starts)	+/- 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	± 0.5 °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
Control accuracy	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C	± 0.1 °C
Display	¼ VGA screen, 320 x 240 pixel	¼ VGA screen, 320 x 240 pixel	¼ VGA screen, 320 x 240 pixel	High brightness CFL backlight graphical LC Display, 256 x 64 dots	¼ VGA screen, 320 x 240 pixel	High brightness CFL backlight graphical LC Display, 256 x 64 dots	-
Auto restart after power failure	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Programming modes	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming	Easy Spreadsheet Programming (ESP) Graphical programming	Spreadsheet Programming	Easy Spreadsheet Programming (ESP) Graphical programming	Spreadsheet Programming	PC software
Software options	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	Adjustable ramp rates time increments, temperature increments	Toggle between spreadsheet and graphical mode, Temperature Optimisation Step, skip function, adjustable ramp rates, extended self test, service files, USB functions	Adjustable ramp rates time increments, temperature increments	Adjustable ramp rates time increments, temperature increments
Quick start of the last 5 programs	Yes	Yes	Yes	-	Yes	-	-
High Precision Smart Lid	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lid temperature range	30 – 99 °C	30 – 99 °C	30 – 99 °C	30 – 99 °C	30 – 99 °C	30 – 99 °C	30 – 99 °C
Max. power consumption	480 Watt	480 Watt	480 Watt	420 Watt	1000 Watt	250 Watt	270 Watt
Noise emission	Very low	Very low	Very low	Very low	Very low	Very low	Very low
Interfaces	RS232 serial port	RS232 serial port	RS232 serial port	RS232 serial port	USB A, USB B	RS232 serial port Centronix parallel port	RS232 serial port
Dimensions (W x D x H)	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 38 cm x 19 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.