



	TC-3000	TC-3000X	TC-3000G	TC-412	TC-512
Block formats					
0.5ml capacity	20	30	30	60	60
0.2ml capacity	25	48	48	96	96
384-well block	X	X	X	✓	✓
Gradient block	X	X	✓	X	✓
In-situ block	X	X	X	✓	✓
User interchangeable blocks	✓	✓	✓	✓	✓
Block Temperature					
Temperature range	4°C to 99°C	4°C to 99°C	4°C to 99°C	4°C to 99°C	4°C to 99°C
Gradient range	-	-	20°C to 80°C	-	20°C to 70°C
Maximum gradient	-	-	15°C	-	30°C (16°C with 384 block)
Maximum ramp rate*	3.6°C/s	3.3°C/s	3.3°C/s	2.6°C/s	3.0°C/s
Block uniformity at 50°C*	±0.1°C	<±0.2°C	<±0.2°C	<±0.3°C	<±0.3°C
Temperature set point precision	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Heated Lid					
Selectable heated lid temperature	100°C to 115°C	100°C to 115°C	100°C to 115°C	100°C to 115°C	100°C to 115°C
Heated lid enable/disable	✓	✓	✓	✓	✓
Over-temperature cut-out	✓	✓	✓	✓	✓
Regulated lid pressure	X	✓	✓	✓	✓
<i>Heated lid only comes on if the block is set above 35°C</i>					
Programming					
Memory cards	X	X	X	X	✓
Number of programs [#]	80	80	80	80	50 (500 with card)
Password protection	✓	✓	✓	✓	✓
Programming	4-line alphanumeric	4-line alphanumeric	4-line alphanumeric	4-line alphanumeric	Touchscreen
Graphical display	X	X	X	X	✓
Incremental/decremental temperature	✓	✓	✓	✓	✓
Incremental/decremental hold time	✓	✓	✓	✓	✓
Maximum hold time	18h	18h	18h	18h	99h
Minimum hold time	1s	1s	1s	1s	1s
Variable programmable ramp rate	0.1°C/s steps	0.1°C/s steps	0.1°C/s steps	0.1°C/s steps	0.1°C/s steps
Run end time calculation	✓	✓	✓	✓	✓
Pause and stop facility	✓	✓	✓	✓	✓
End of program alarm (enable/disable)	✓	✓	✓	✓	✓
Auto restart on power failure	✓	✓	✓	✓	✓
Other Features					
Connectivity to PC	RS232	USB	USB	RS232 (RS485 with kit)	RS232/485
Dual voltage (115/230V)	✓	Universal (90 to 260V)	Universal (90 to 260V)	✓	✓
Temperature sensor	Thermistor	Thermistor	Thermistor	Thermistor	Thermistor
Peltier elements/block	4	6	6	8	8
Dimensions L x W x H (mm)	330 x 185 x 190	330 x 185 x 190	330 x 185 x 190	420 x 220 x 260	420 x 220 x 260
Connection to PC control program	✓	✓	✓	✓	✓
Free software upgrades from website	✓	✓	✓	✓	✓
Power consumption	230W	230W	230W	620W	620W
Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Voltage	230/115V or 100V	90V to 260V	90V to 260V	230/115V or 100V	230/115V or 100V

*Given are typical values for a standard 0.2ml block in an ambient temperature of 20°C.

Actual numbers are dependent on complexity of the programs.



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