

Specifications

Thermal range:	-5° to 105°C, but no more than 30°C below ambient temperature
Accuracy:	±0.3°C of programmed target @ 90°C, NIST-traceable
Thermal homogeneity:	±0.4°C well-to-well within 30 seconds of arrival at 90°C (for most Alpha units; see specifications for individual Alpha units)
Ramping speed:	Up to 3°C/sec for all single- and dual-block Alpha units; 1.2°C/sec for the Twin Tower
Sample capacity:	Varies with installed Alpha unit
Line voltage:	100–240VAC rms (no adjustment needed among voltages within these ranges)
Frequency:	50–60Hz single phase
Power:	850W maximum
Fuses:	Two 6.3A, 250V, 5 x 20mm
Displays:	One 20 x 4 LCD alphanumeric display
Ports:	One 25-pin 8-bit parallel interface printer port One 9-pin RS-232 serial port for printer or remote use One IEEE-488 bidirectional general purpose interface bus
Memory:	200 typical programs in up to 12 individual folders
Weight:	7.6–9.3kg, varies with installed Alpha unit (DNA Engine Tetrad: 29kg, including Alpha units and power supply)
Size:	24 x 35 x 17cm (DNA Engine Tetrad: 37 x 55 x 25cm)

Gradient Specifications (96V Alpha module only)

Accuracy:	$\pm 0.4^{\circ}\text{C}$ of programmed target at end columns, 30 seconds after the timer starts for the gradient step, NIST-traceable
Column uniformity:	$\pm 0.4^{\circ}\text{C}$, well-to-well within column, within 30 seconds of reaching target temperature
Calculator accuracy:	$\pm 0.4^{\circ}\text{C}$ of actual well temperature
Lowest programmable temperature	30°C
Highest programmable temperature	105°C
Temperature differential range	$1\text{--}24^{\circ}\text{C}$