

Specifications

Thermal range:	-5° to 105°C, but no more than 30°C below ambient temperature (4° to 100°C for the Slide Chambers Alpha unit)
Thermal accuracy:	±0.3°C of programmed target at 90°C, NIST-traceable
Thermal uniformity:	±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; up to 1.2°C/sec for the Slide Chambers Alpha unit.
Sample capacity:	Varies with installed Alpha unit
Line voltage:	DNA Engine® cyclers: 100–240 VAC rms (no adjustment needed among voltages within these ranges)
Frequency:	50–60 Hz single phase
Power:	DNA Engine cyclers: 850 W maximum
Fuses:	Two 6.3 A, 250 V, 5 x 20 mm
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:	400 typical programs in up to 12 individual folders

Gradient Specifications (96V Alpha module only)

Accuracy:	+0.3°C of programmed target at end columns, 30 seconds after the timer starts for the gradient step, NIST-traceable
Column uniformity:	+0.4°C, well-to-well within column, within 30 seconds of reaching target temperature
Gradient calculator accuracy:	+0.4°C of actual well temperature
Lowest programmable temp:	30°C
Highest programmable temp:	105°C