

Q-Cycler 96

INSTRUMENT SPECIFICATIONS

Thermal Blocks

Block Materials	Modular anodized aluminium or gold coated silver blocks with 4 sensors
Traceability	NIST traceable temperature calibration
Blocks Available	96 well gradient block: for 96 well PCR plates or 96 x 0.2ml tubes 96 well gradient combi block: for 96 well PCR plates, 96 x 0.2ml tubes 4 slide/microarray 384 well high throughput block: for 384 well plates

High Pressure Heated Lid

Lid Temperature	112°C
Lid Pressure Range	Lid pressure manual – compatible with all seals
Ambient Temperature	10°C to 30°C
Relative Humidity	0% to 95%

User Interfaces

Screen Type	6.4 inch TFT colour touchscreen
System Input	Touchscreen, external keyboard and mouse (USB), barcode scanner (USB)
Temperature Display	Real-time graphical display of actual and set block temperatures Real-time digital display of all sensor values
Communication Interfaces	4 x USB front (personal memory stick)+3xrear

User & File Management

User Level Management	3 levels: Administrator, User with Administrator selectable restricted rights, Guest
User File Protection	Yes, for programs and reports
File Organization	Windows Explorer, user-defined folders and subfolders
Program Storage	Minimum 1000 (internal memory or USB stick). Unlimited PC program storage

Reports & Validation

Report Function	Encrypted GLP report, LabBook report
Validation	Internal auto validation prior to each program start Thermal engine validation function

Networking & Barcode Option

Networking	Cycler network up to 4 units Server – Satellite system network up to 4 units
Barcode Option	Barcode documentation via handheld barcode scanner

Thermal Engine Characteristics

Temperature Control	4°C – 99.9°C with simulated volume dependent control algorithm
Sample Volume Range	5-100µl
Sample Accuracy	±0.4°C (20-99°C), ± 1°C (4-20°C)
Sample Homogeneity	±0.4°C
Heating	Up to 6°C per second
Cooling	Up to 3°C per second
Sample Overshoot	< 1°C
Gradient Temperature Range	30°C - 80°C (96 well only)
Maximum/minimum Gradient Span	30°C / 4°C

Power & Dimensions

Electronic Power Supply	100V to 240V (frequency 48 to 62Hz)
Dimensions	(WxDxH) 34cm x 42cm x 26cm
Weight	12kg approx.
Operating Conditions	10°C - 30°C, 0-95% relative humidity
Regulatory	CE compliant
Warranty	2 years on all systems