

# Q-Cycler 48

## INSTRUMENT SPECIFICATIONS

### Thermal Blocks

Block Materials	Modular anodized aluminium blocks with 2 sensors
Traceability	NIST traceable temperature calibration
Blocks Available	48 well aluminium block

### High Pressure Heated Lid

Lid Temperature	112°C
Lid Pressure Range	Preset
Ambient Temperature	10°C to 30°C
Relative Humidity	0% to 95%

### User Interfaces

Screen Type	3.5 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
Communication Interfaces	1 x USB front (personal memory stick)

### User & File Management

User Level Management	Guest only
User File Protection	Yes, for programs and reports
File Organization	Windows Explorer, user-defined folders and subfolders
Program Storage	Minimum 100 (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	N/A
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 2.5°C per second
Cooling	Up to 2°C per second
Sample Overshoot	< 1°C
Gradient Temperature Range	N/A
Maximum/minimum Gradient Span	N/A

### Power & Dimensions

Electronic Power Supply	100V to 240V (frequency 48 to 62Hz) 150W
Dimensions	(WxDxH) 18.5cm x 24cm x 24cm
Weight	6kg approx.
Operating Conditions	10°C - 30°C, 0-95% relative humidity
Regulatory	CE compliant
Warranty	2 years on all systems