Specifications

Thermal Cycling High performance active heating and **Technology** cooling using quality peltier elements x8

and precision sensors x4

Temperature Range 4°C – 99°C

Temperature Accuracy ±0.25°C of set temperature, 30 seconds after target

Temperature Uniformity ±0.3°C, 30 seconds after target

Temperature Resolution 0.1°C increments

Heating/Cooling Rate 3°C/sec maximum (block)

Well Configuration 96-well block supporting: 0.2 mL tubes or strip tubes with flat or domed caps;

96-well high-or low skirt plates with strip caps, adhesive cover, or oil overlay

Linear Thermal Gradient* Programmable 0–20°C across block width (12 wells)

Condensation Control Automatic utilising applied pressure heated lid

Heated Lid Controllable 60°C – 115°C

Temperature Range

Dimensions Width: 180mm (7")

Depth: 285mm (11.2"); 350mm (13.8") including cables Height: 190mm (7.5") lid closed; 340mm (13.4") lid open

Weight 5.5kg (11 lbs)

Colour Pewter on black

Electrical 100–240 VAC @ 4 Amp (50/60 Hz) Automatic voltage sense, standard IEC Inlet plug

External Connectivity USB interface to Windows based PC

Interface USB host port - file transfer to and from USB memory stick - mouse/keyboard connection

- printer (in future software release)

Internal Interface Embedded graphical controller with 7" widescreen touch sensitive colour backlit display

Software Supplied with unlimited user licenses

Free upgrades available via web download

Functionality Touch Down/Up, Long Range, Linear Thermal Gradient*, Program Pauses, Temperature

Graphing, On-screen Help, User Accounts, Profile Load and Saving, Manual Mode, USB

File Transfer, Post run reporting, and more.

Included Accessories Power Cable, User Manual, Touch Screen Stylus





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(*available selected regions)

PRODUCT BROCHURE PCR SYSTEM



SuperCycler

High Performance Gradient Thermal Cycler



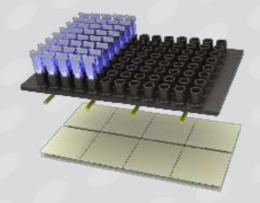
Platform

The SuperCycler is a high performance block cycling system configured and optimised for industry standard 200ul individual or strip tube (domed or flat-capped) or 96-well plates (low or high skirt) with strip caps or adhesive film seals. It incorporates state of the art electronics, precision quality peltier devices and a flexible user interface.

Powerful Thermal Engine with Gradient ability*

A precision composite alloy block with low mass and high thermal conductivity provides excellent ramp rates, long peltier life and low well to well temperature variation.

8 high quality peltier devices with 4 independent control systems and feedback sensors allow for high thermal uniformity across the block and a linearised gradient* ability.





Touch Screen Graphical User Interface A high performance graphical processor with large 7 inch, vivid color touch screen display allows for easy run setup and monitoring. The powerful yet intuitive software makes creation of even the most complex of thermal profiles a breeze. Free software upgrades are provided on our website

keeping your instrument up to date with the latest features and developments.

Compact Footprint

Boasting a footprint of only 18x28.5x19cm (WxDxH), the SuperCycler is designed to save valuable bench space within the laboratory.

Weighing in at just 5.5kg, this machine is also highly portable for the ever-changing laboratory environment.

USB Connectivity

A front USB port allows for fast, easy file transfer to USB memory stick enabling the sharing of thermal profiles between instruments and users. The use of a USB mouse is also supported.

Interface

The SuperCycler software implements a powerful thermal profile engine. A profile may contain up to 100 events. Each 'event' can be either a hold at temperature, pause, ramp or 2 to 5 step cycling with up to 100 repeats. Any event or step can contain gradient*, touchdown or long range features. An almost unlimited number of profiles may be stored on the device for re-running. Despite its high level of capabilities profile setup is straightforward.

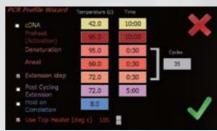
Live Graphing Gives vivid feedback of the thermal activity. Enables the user to set the block to a specific temperature quickly without creating a thermal profile. Manual Control This function is useful for incubating reactions such as DNA digestion or ligation. **Oglio Calculator** Is incorporated into the software to assist the operator in oligonucleoide design. Ouickstart Wizard Enables the user to configure easy to moderate complexity profiles in just moments. Front access USB host port enables file transfer between units using an ordinary USB memory stick. **USB** Connectivity Also supports the use of a mouse. Enables easy separation and organization of user thermal run profiles. Many thousands of profiles may User Accounts be stored in the large internal 256mb+ memory. The 'Pause' feature allows the user to pause the profile at any number of pre-programmed points while Pause Enables the time of a particular cycling step to be automatically increased or decreased by a preset Long Range amount over a specified range of cycle repeats. Enables the temperature of a step to be automatically increased or decreased by a preset amount over Touch Down/Up a range of successive cycle repeats. On Screen Help User manual is inbuilt into the software ensuring that help is never more than a click away. Post run report is generated on run completion and may be saved to USB memory stick for inclusion Run Reporting into your run documentation.

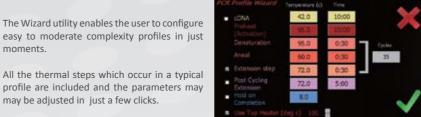
Manual Profile Editor



The Manual Profile editor screen displays the current experiment profile in a 'tree list' format with a graphical representation of each

Wizard Mode





User Accounts

may be adjusted in just a few clicks.



The User Accounts section allows up to 99 user profiles each with dedicated file storage directory and personalised Icon.

When a user is selected thermal profiles will be loaded or saved to a directory specific to that user providing easy recovery later.

