



Your Premier Service and Instrument Provider in the
Biotech and Life Science Sector

Looking for a new PCR machine?

Kyratec's new 96 well gradient thermal cycler, smaller, lighter, quieter and cheaper than ever!



Kyratec Super Cycler Key Points

The SuperCycler Trinity is a high performance thermal 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.

Heated Lid Evaporation Control

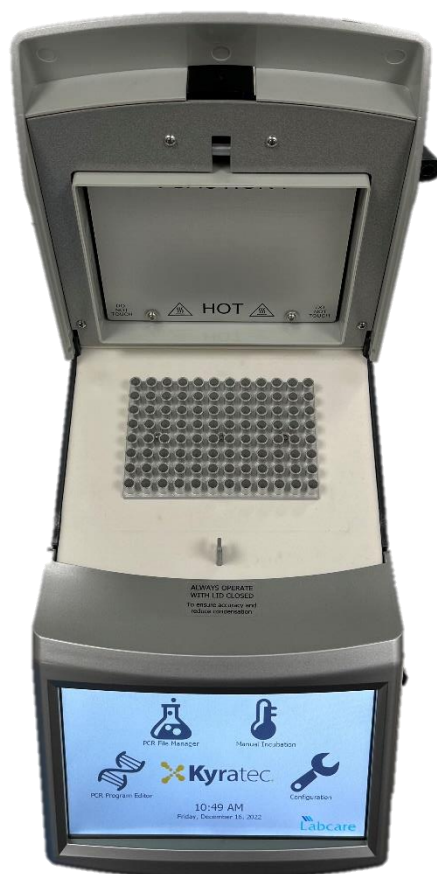
The SuperCycler employs an applied pressure heated lid design to keep the air contained within the tube hotter than the reaction volume. This causes any evaporation to condense back into the cooler reaction liquid, thereby eliminating the need for an oil or wax condensation overlay.

Touch Screen

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.

Small Footprint

Boasting a footprint of only 180 x 285 x 190 mm (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.



Powerful Thermal Engine

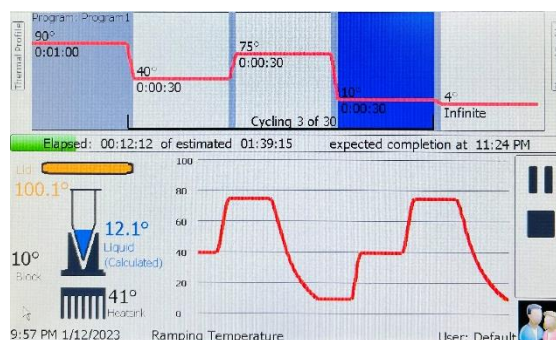
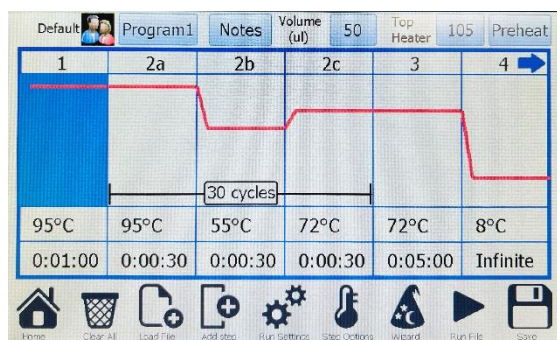
At the heart of the Trinity series instruments lies 3 fully independent sets of peltiers, temperature sensors and control electronics. This powerful and reliable thermal engine is capable of delivering high ramp rates in excess of 5 °C per second with our standard low thermal mass alloy block whilst maintaining a long peltier life and low well to well temperature variation.

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 and Usability

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 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

Manual Control

Enables the user to set the block to a specific temperature quickly without creating a thermal profile. This function is useful for incubating reactions such as DNA digestion or ligation

Auto Restart

If a power interruption should occur the instrument can automatically restart from the point at which interruption occurred

QuickStart Wizard

Enables the user to configure easy to moderate complexity profiles in just moments

USB Connectivity

Front access USB host port enables file transfer between units using an ordinary USB memory stick. Also supports the use of a mouse. USB PC interface port available on machine rear

User Accounts

Enables easy separation and organization of user thermal run profiles. Many thousands of profiles may be stored in the large internal 256mb+ memory

Pause

The 'Pause' feature allows the user to pause the profile at any number of pre-programmed points while emitting an alert beep

Long Range

Enables the time of a particular cycling step to be automatically increased or decreased by a preset amount over a specified range of cycle repeats

Touch Down/Up

Enables the temperature of a step to be automatically increased or decreased by a preset amount over 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

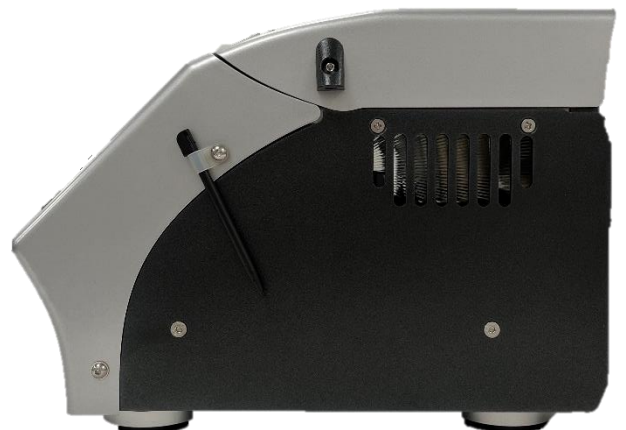
Run Reporting

Post run report is generated on run completion and may be saved to USB memory stick for inclusion into your run documentation

Gallery and Footprint Comparison



The Kyratec next to a leading PCR machine better emphasizes the small and compact footprint which is a must in busy laboratories.



Specifications

Thermal Cycling Technology	High performance active heating and cooling using 6 quality peltier elements with 3 temperature sensors
Temperature Range	4 °C to 99 °C
Temperature Accuracy	±0.5 °C over full range, typically < ±0.1 °C at 60 °C
Temperature Uniformity	±0.3 °C, 30 seconds after target (range 40 °C to 90 °C), typically < ±0.1 °C at 60 °C
Temperature Resolution	0.1 °C increments
Heating/Cooling rate	5 °C/sec typical heat & cool between denat & aneal (block), 7 °C/sec Peak (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
Condensation Control	Automatic utilising applied pressure heated lid
Heated Lid Temperature Range	60 °C to 115 °C
Dimensions	180 x 285 x 190 mm (W x D x H)
Weight	5.5 kg
Electrical	100 to 240V, 50/60 Hz
External Connectivity Interface	USB interface to Windows based PC USB host port – file transfer to and from USB memory stick – mouse/ keyboard connection
Display	7-inch widescreen touch sensitive colour backlit display
Software	Supplied with unlimited user licenses, Free upgrades available
Internal memory	256 MB, enough for 10,000+ saved profiles
Functionality	Touch Down/Up, Long Range, Program Pauses, Temperature Graphing, On-screen Help, User Accounts, Profile Load and Saving, Manual Mode, USB File Transfer, Post run reporting, Auto restart and more
Included Accessories	Power Cable, User Manual (downloadable PDF) and Touch Screen Stylus

Pricing and Additional Information

The Kyratec Super Cyclor is competitively priced and includes discounts when additional units are purchased at a time, for more than 7 units required, please contact us.

Single Unit List Price	£3,000
More Than 1 Unit	POA

Pricing as of 2023.



9760

To ensure confidence each unit comes UKAS temperature calibrated with certification when purchased through Labcare.

Service Contracts and Aftercare

Each Super Cyclor comes with 1 year's warranty and lifetime technical support when purchased through Labcare, in addition to this annual service contracts are available and are offered with a 10% discount* when purchased in conjunction with a Super Cyclor, this includes priority response to breakdowns, an annual service visit where the unit is inspected and tested to ensure your Super Cyclor is performing as expected and a temperature calibration.

Please enquire for more details and to discuss what options may suit you.

*Excludes travel cost

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