

unleash the power...

HB-Cycler



The HB-Cycler from Helena BioSciences offers the scientist a high specification thermal cycler at an affordable price. The temperature control of the HB-Cycler is driven using solid-state Peltier devices. These ensure not only powerful ramp rates but also accurate temperature stability and uniformity.

User-friendly software

The control software installed in the HB-cycler is designed to offer user-friendly control and programming, implemented in easy to interpret menus. The control panel comprises a clearly visualised 168 character LCD display, upon which navigation through the program menus is simple due to logical file layering. Together, this allows the operator to quickly select, view and start pre-entered programs. Each program step can be displayed in full so that all parameters can be verified before commencing a program run, and all programs can be protected by PIN codes to prevent unwanted alteration. Incremented and decremented temperatures and times can be included to allow changes in cycle parameters, useful in protocols that utilise dynamic temperature settings.

Peltier temperature control

The temperature control is driven using solid-state Peltier technology giving control and power superior to other methods. The use of high power Peltiers allows temperature ramp rates of up to 4 °C per second resulting

in faster runs and overall shorter program times. This allows a greater number of runs to be completed in a single day increasing the work capacity of the instrument for laboratories with a high number of samples.



Heated Lid

The heated lid has a flush fitting enclosure to ensure a complete seal eliminating airflow across the block surface. This means that the temperature control is maintained regardless of the environmental conditions. The in-lid surface is spring-mounted to ensure even contact and pressure on all tube lids regardless of the tube height, ensuring no condensation of water vapor on the tube lids.

Performance Specification

Display	64 *128 pixels graphic LCD
Block Temperature Range	4 °C to 99 °C
Block Heating Rate	Up to 4 °C/second
Block Cooling Rate	Up to 3 °C/second
Block Uniformity	±0.5 °C
Heated Lid Temperature	105 °C
Precise control	±0.5 °C
Timer	Programmable in 1 second increments.
Timer Accuracy	Better than ±1 % of setting.
Temperature	programmable in 0.1 °C increments, between 4 and 99 °C

Ordering Information.

Cat. No.	Description	Qty.
HBCY022	96 x 0.2ml sample block 230 Volts	1
HBCY052	60 x 0.5ml sample block 230 Volts	1
HBCY021	96 x 0.2ml sample block 115 Volts	1
HBCY051	60 x 0.5ml sample block 115 Volts	1