

PCR THERMAL CYCLERS

German engineering. Italian manufacturing.

HIGH-SPEED THERMAL CYCLING IN A COMPACT FORMAT

Labcycler 48

48 Wells (0.2 ml) Silver Block, Half 96-Well Block

SKU: 013-103

Thermal performance for focused PCR workflows

The Labcycler 48s combines a compact 48-well format with the thermal conductivity of a gold-coated silver block. Its 6 × 8 array supports 0.2 ml single tubes and strips, making it a practical choice for lower-throughput PCR, sequencing and routine molecular biology workflows.

- High-speed silver block with heating and cooling rates up to 5.0 °C/s
- 48 wells in a 6 × 8 array, equivalent to half of a 96-well block
- Adjustable ramp rates from 0.001 to 5.0 °C/s
- 5.7-inch colour touchscreen with an intuitive graphical interface
- Programmable temperature and time increments with password protection



48

0.2 ML WELLS

6 × 8

BLOCK ARRAY

5.0 °C/s

MAX. HEATING RATE

5.0 °C/s

MAX. COOLING RATE

Reliable control, straightforward operation

The thermal conductivity of silver supports rapid temperature changes and excellent block uniformity. Store up to 680 programs in directories with optional password protection, review the last 16 program runs, and use the restart function for interrupted workflows. Intersystem copy functionality supports program transfer with compatible Labcycler instruments.

Thermoblock 48 compatibility

Designed for 0.2 ml single tubes and strips.
Temperature range: -5.0 °C to 99.9 °C.
Temperature uniformity: ± 0.25 °C at 55 °C and ± 0.40 °C at 95 °C.

TECHNICAL DATA

HIGH-SPEED THERMAL ENGINEERING

INSTRUMENT AND THERMOBLOCK SPECIFICATIONS

Labcycler 48

SKU: 013-103

Instrument	
Dimensions	Length 444 mm; width 251 mm; height 201 mm with lid closed; 347 mm with lid open
Weight	11.5 kg
Line voltage	85 V to 265 V without switching; 50 to 60 Hz
Power consumption	Maximum 350 W; standby 25 W
Noise emission	Idle 38 dBA; typical run 44 dBA; maximum run 48 dBA
Interfaces	2 × RS232 for software updates, remote control and computer-based protocol documentation
Display	Illuminated 5.7-inch TFT colour touchscreen; ¼ VGA; 320 × 240 pixels
Keyboard	Numeric silicone keys and context-sensitive virtual touchscreen keys
Heated lid	Electrically moving; temperature and pressure programmable
Lid pressure	Programmable from 30 to 120 N; foil sealing possible
Program capacity	680 programs; last 16 program runs can be displayed; restart function
Password protection	Optional protection for programs and directories
Software	Intersystem copy function with compatible Labcycler 48, Basic and Gradient instruments
Warranty	2-year manufacturer's warranty

Thermoblock 48s, gold-coated silver

Compact high-speed block with 48 wells arranged in a 6 × 8 array, equivalent to half of a 96-well block.

Capacity and configuration	48 wells for 0.2 ml tubes; 6 × 8 array
Compatible consumables	0.2 ml single tubes and strips
Block material	Gold-coated silver
Temperature range	−5.0 °C to 99.9 °C
Maximum heating rate	5.0 °C/s during real operation
Maximum cooling rate	5.0 °C/s during real operation
Selectable ramp rates	0.001 to 5.0 °C/s
Temperature uniformity	± 0.25 °C at 55 °C; ± 0.40 °C at 95 °C
Control accuracy	± 0.01 °C

Specifications are based on Diatech Pharmacogenetics manufacturer documentation and Montreal Biotech product information. Product specifications are subject to change without notice.