Montreal Biotech Inc.
149 Guthrie Ave. Dorval, PQ H9P 2P1, Canada
1-888-697-2312 | www.montreal-biotech.com

PCR THERMAL CYCLERS German engineering. Italian manufacturing.

PRECISION THERMAL CYCLING FOR MODERN LABORATORIES

Labcycler Gradient

96 Wells (0.2 ml) Silver Block with ± 20 °C Gradient

SKU: 011-101

Accuracy, flexibility and long-term reliability

The Labcycler is a compact, processor-controlled PCR thermal cycler designed for routine and intensive workflows. Its gradient-capable silver block, precise thermal control and intuitive touchscreen support consistent results across molecular biology applications.

- Electroformed gold-plated silver block for rapid, uniform heat transfer
- 40 °C total gradient, ± 20 °C from left to right across 12 zones
- Quick-change block system for adaptable laboratory workflows
- Programmable heated lid with adjustable pressure and foil sealing support
- 5.7-inch colour touchscreen with numeric and context-sensitive virtual keys



96	± 20 °C	4.2 °C/s	3.6 °C/s
0.2 ML WELLS	GRADIENT RANGE	MAX. HEATING RATE	MAX. COOLING RATE

Built around the way your lab works

Independently regulated Peltier elements support temperature homogeneity at high heating and cooling rates. Store up to 680 five-step programs or at least 3,000 steps, protect methods with user-specific passwords, and review the last 16 program runs at any time. Quiet operation and a compact benchtop footprint make the system suitable for research, diagnostic assay development, biotechnology and academic laboratories.

Thermoblock 96 compatibility

0.2 ml single tubes, strips and 96-well microplates. Minimum reaction volume: 10 µl. Temperature range: −5.0 °C to 99.9 °C.

INSTRUMENT AND THERMOBLOCK SPECIFICATIONS

Labcycler Gradient

SKU: 011-101

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 five-step programs or at least 3,000 steps; last 16 program runs can be displayed
Password protection	Individual protection for groups, users, folders and programs
Languages	English, German, Spanish and Chinese
Warranty	Three-year manufacturer's warranty

Thermoblock 96, electroformed gold-plated silver

Processor-controlled, gradient-capable block with separately regulated Peltier elements and a quick-change system.

Capacity and formats	96 wells; 0.2 ml single tubes, strips and 96-well microplates
Minimum reaction volume	10 µl
Temperature range	−5.0 °C to 99.9 °C
Gradient	40 °C total, ± 20 °C from left to right; 12 gradient zones
Heating rate	Adjustable from 0.001 to 4.2 °C/s
Cooling rate	Adjustable from 0.001 to 3.6 °C/s
Temperature uniformity	± 0.25 °C at 55 °C; ± 0.40 °C at 95 °C
Control accuracy	± 0.01 °C
Time and temperature increments	Time ± 99.99 s; temperature ± 9.99 °C

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