

Thermo Scientific Arktik Thermal Cycler

The Thermo Scientific Arktik Thermal Cycler is a reliable and flexible PCR instrument for the everyday requirements of any laboratory. It is suitable for a wide range of applications from individual reactions to high-throughput projects.



Features

- Interchangeable blocks with excellent thermal precision
- Dual 48-well block for multi-user option
- Broad and accurate temperature gradient*
- Reliable and easy to use
- Low noise level
- Accepts almost all standard PCR plastics

Flexibility with interchangeable blocks

Interchangeable blocks allow the Arktik™ Thermal Cycler to be quickly and easily transformed from a 96-well to a 384-well PCR instrument. With the dual block the instrument operates as two 48-well units, enabling two independent protocols to be performed simultaneously. The blocks feature a patent pending heat sink design that improves the speed and thermal uniformity of the system.

Broad and accurate temperature gradient speeds up protocol optimization*

Tedious temperature optimization can be simplified to a single experiment with the Arktik Thermal Cycler's advanced gradient feature. The gradient range is broad – up to 30°C – and accurate, allowing easy temperature optimization.

Reliable and quiet instrument for demanding use

State-of-the-art Peltier technology employed in heating and cooling of the blocks ensures that the instrument maintains its high level of performance in demanding use. An overtightening protection system in the heated lid simplifies setting the correct pressure for PCR vessels used. The low noise level of the instrument is an additional benefit when the instrument is placed in the laboratory working space.

Ease-of-use

Ease-of-use is the key feature of the Arktik Thermal Cycler's user interface. The protocol is displayed graphically, and the programming is simple with intuitive menus.



* Gradient feature not available in U.S. and Germany

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| Feature | |
|----------------------|--|
| Block configurations | 96 x 0.2 ml, 384 x 0.03 ml, 2 x 48 x 0.2 ml (dual block). Interchangeable. |
| Max ramp rate | 3.0°C/s |
| Thermal uniformity | +/- 0.4°C at 90°C |
| Thermal accuracy | +/- 0.3°C |
| Thermal range | 4-99.9°C |
| Heated lid | Manually adjustable. Over-tightening protection system. |
| User interface | Semi-graphical |
| Number of programs | 4950 |
| Size | Width 29 cm, depth 38 cm, height 29 cm |
| Weight | 10.5 kg |
| Power requirements | 100-240 V input power, 50-60 Hz, 600 W |
| Communications | Ethernet, USB memory port |
| Warranty | 1 year |
| Certifications | CE |

Ordering information

| Product code | Description |
|--------------|---|
| TCA0001 | Arktik Thermal Cycler base unit, with gradient** |
| TCA0002 | Arktik Thermal Cycler base unit, without gradient |
| TCA0096 | 96-well single block |
| TCA0384 | 384-well single block |
| TCA4848 | Dual block (2 x 48 wells) |

** Not available in U.S. and Germany.

Contact Information

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Purchase of this instrument conveys a limited, non-transferable immunity from suit for the purchaser's own internal research and development and applied fields other than human in vitro diagnostics only under Canadian Patent 1,339,653, U.S. Patent 5,475,610 (claims 160-163 only) and non-U.S. counterpart claims as applicable. Euro Literature # PB_2010_74

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