

Applied Biosystems 2720 Thermal Cycler

Small budget. Small footprint. Big performance.

- Rely on Applied Biosystems proven PCR performance at an affordable price
- Save space without sacrificing results
- Enhance productivity with intuitive software



Benefit from PCR Leadership

The invention of the polymerase chain reaction (PCR) process more than two decades ago is widely recognized as one of the most important developments in life science research. Today, the use of PCR for nucleic acid amplification is an integral part of the life science research laboratory.

With our portfolio of innovative PCR instruments, reagents, and software, Applied Biosystems has always been at the forefront of the industry, providing optimized PCR systems to ensure successful, reproducible PCR amplification.

Count on Dependable Quality

The Applied Biosystems 2720 Thermal Cycler provides the same reliability and performance that customers around the world have come to expect. Many features from the industry standard GeneAmp® PCR System 9700 have

been incorporated into the 2720 thermal cycler to ensure similar performance and reliability. Ideal for a full range of PCR applications, the 2720 thermal cycler delivers high performance in a more compact package at a lower price.

Save Valuable Laboratory Space

Recognizing that bench space is at a premium in most laboratories, Applied Biosystems engineered the 2720 thermal cycler with an exceptionally small footprint to fit almost anywhere. Compact Peltier heating and cooling devices enable a wide range of features to fit in a 96-well instrument measuring only 21 x 36 cm. The 2720 thermal cycler is designed with vents in the rear, allowing several thermal cyclers to be placed tightly side-by-side to conserve valuable bench space.

Enhance Productivity

A graphical user interface that is almost identical with that of our 9700 thermal

cycler makes the 2720 thermal cycler simple, intuitive, and easy to program. New users will need only minimal instruction to operate the instrument. In addition to standard software features, the 2720 thermal cycler includes a melting point (T_m) calculator that determines the primer annealing temperature based on nearest-neighbor analysis. Even in the event of electrical power interruption, the instrument retains all data.

Optimize Your Results with the Complete System

A complete line of PCR reagents and MicroAmp® plates, tubes, caps, and full-plate covers are available for use with the Applied Biosystems 2720 Thermal Cycler.

Specifications

Format

- 96-well

Control keys

- 5 soft keys
- 4 arrow keys
- Stop/Enter/Clear keys
- Full numeric keypad

Memory

- Stores 100 methods (pre- and post-PCR holds and cycles).

Display

- A 7 x 40-character LCD displays the countdown for each temperature incubation segment, as well as cycles completed, and temperature ramp.

Modifiable programs

- Default programs (pre-, post-, and 25-cycle PCR) can be modified to accommodate all protocols.
- Customized PCR methods can be stored and protected from unintentional overwriting.

Software functions

- Fixed ramp speeds
- Time and temperature auto-extend/auto-decrease
- Programmable pauses
- Date
- Time
- Auto-restart (for use after power disruption)
- T_m calculator
- Temperature verification

User diagnostics

- Allows laboratory technician to verify heating/cooling rates and check display functions.

Serial communication ports

- One

Dimensions

- Width: 21 cm (8.3 in)
- Depth: 36 cm (14.2 in)
- Height: 22 cm (8.7 in)
- Weight: 6.1 kg (13.5 lb)

Temperature range

- 4.0–99.9°C

Temperature display

- Displays calculated sample temperatures; can be set to 0.1°C.

Average heating/cooling rates

- Sample: 1°C/second

Static temperature uniformity

- $\pm 0.5^\circ\text{C}$, 30 seconds after clock-start at 95°C.

Temperature accuracy

- $\pm 0.25^\circ\text{C}$ (range: 35–100°C)

Temperature calibration

- Calibrated to standards traceable to the National Institute of Standards and Technology (NIST).

Heated cover

- Maintains constant temperature of 105°C for oil-free operation.

Ramp time reproducibility

- Reaches thermal set points within ± 5 seconds.

ORDERING INFORMATION

Product	P/N
Applied Biosystems 2720 Thermal Cycler	4359659

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NOTICE TO PURCHASER: Label License

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