

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.

A new addition to our leading-edge suite of PCR products is the personal-sized Applied Biosystems 2720 Thermal Cycler. An ideal instrument for a full range of PCR applications, it represents the culmination of several years of intensive research into thermal cycler technology.

Count on Applied Biosystems Quality

The 2720 thermal cycler provides the same reliability and performance that customers around the world have



come to expect from Applied Biosystems thermal cyclers. Many features from the industry standard GeneAmp® PCR System 9700 have been incorporated into the 2720 thermal cycler to ensure similar performance and reliability. The 2720 thermal cycler delivers this level of performance in a more compact package for 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 an 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 system 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

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

±0.5°C, 30 seconds after clock-start at 95°C.

Temperature accuracy

±0.5°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

Description	Part Number
Applied Biosystems 2720 Thermal Cycler	4359659



iScience. To better understand the complex interaction of biological systems, life scientists are developing revolutionary approaches to discovery that unite technology, informatics, and traditional laboratory research. In partnership with our customers, Applied Biosystems provides the innovative products, services, and knowledge resources that make this new, **Integrated Science** possible.

Worldwide Sales Offices

Applied Biosystems vast distribution and service network, composed of highly trained support and applications personnel, reaches 150 countries on six continents. For international office locations, please call the division headquarters or refer to our Web site at www.appliedbiosystems.com

Applera is committed to providing the world's leading technology and information for life scientists. Applera Corporation consists of the Applied Biosystems and Celera Genomics businesses.

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For Research Use Only.

Not for use in diagnostic procedures.

This instrument is an Authorized Thermal Cycler. Its purchase price includes the up-front fee component of a license under United States Patent Nos. 4,683,195, 4,683,202 and 4,965,188, owned by Roche Molecular Systems, Inc., and under corresponding claims in patents outside the United States, owned by F. Hoffmann-La Roche Ltd, covering the Polymerase Chain Reaction ("PCR") process to practice the PCR process for internal research and development using this instrument. The running royalty component of that license may be purchased from Applied Biosystems or obtained by purchasing Authorized Reagents. This instrument is also an Authorized Thermal Cycler for use with applications licenses available from Applied Biosystems. Its use with Authorized Reagents also provides a limited PCR license in accordance with the label rights accompanying such reagents. Purchase of this product does not itself convey to the purchaser a complete license or right to perform the PCR process. Further information on purchasing licenses to practice the PCR process may be obtained by contacting the Director of Licensing at Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404, USA.

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