

Global Rapid Thermal Cyclers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Rapid Thermal Cycler market size is expected to reach \$ 2083 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

In 2025, global Rapid Thermal Cycler production reached approximately 295,238 units, with an average global market price of around US\$4,200 per unit.

The gross profit margin of major companies in the industry is between 32% ? 52%.

In 2025, the global production capacity of Rapid Thermal Cycler was approximately 393,651 units.

Rapid Thermal Cycler is a laboratory instrument designed for fast DNA amplification through repeated temperature cycling. It improves PCR efficiency by shortening ramp times, enhancing thermal uniformity, and supporting higher-throughput molecular testing, making it suitable for research, diagnostics, pathogen detection, and genetic analysis applications.

The industrial chain of Rapid Thermal Cycler includes upstream chips, temperature sensors, heating elements, cooling modules, control boards, optical parts, and plastics. Midstream covers instrument design, thermal control integration, assembly, calibration, and testing. Downstream applications mainly include laboratories, hospitals, research institutes, diagnostics, food testing, and biotechnology analysis.

The global rapid thermal cycler market is driven by growing demand in molecular diagnostics, life science research, and biopharmaceutical development. Key industry trends focus on higher heating and cooling efficiency, improved temperature accuracy,

smaller footprint, and smarter automated operation, supporting applications ranging from routine testing to high-throughput screening.

This report studies the global Rapid Thermal Cyclers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Rapid Thermal Cyclers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Rapid Thermal Cyclers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Rapid Thermal Cyclers total production and demand, 2021-2032, (K Units)

Global Rapid Thermal Cyclers total production value, 2021-2032, (USD Million)

Global Rapid Thermal Cyclers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Rapid Thermal Cyclers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Rapid Thermal Cyclers domestic production, consumption, key domestic manufacturers and share

Global Rapid Thermal Cyclers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Rapid Thermal Cyclers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Rapid Thermal Cyclers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Rapid Thermal Cyclers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thermo Fisher Scientific, Bio-Rad Laboratories, QIAGEN, Roche, Analytik Jena, Eppendorf, Molecular Biology Systems, Bioneer, Agilent Technologies, Meridian Bioscience, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Rapid Thermal Cyclers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Rapid Thermal Cyclers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Rapid Thermal Cyclers Market, Segmentation by Type:

Real-time Thermal Cyclers

Gradient Thermal Cyclers

Global Rapid Thermal Cyclers Market, Segmentation by Throughput Capacity:

Low Throughput Cyclers (<48 wells)

Medium Throughput Cyclers (48-96 wells)

High Throughput Cyclers (>96 wells)

Global Rapid Thermal Cycler Market, Segmentation by Temperature Ramp Rate:

Standard Ramp Rate Cycler (<3°C/s)

Fast Ramp Rate Cycler (3-6°C/s)

Ultra-fast Ramp Rate Cycler (>6°C/s)

Global Rapid Thermal Cycler Market, Segmentation by Application:

Clinical Laboratories

Biotechnology and Pharmaceutical Companies

Academic and Research Institutes

Others

Companies Profiled:

Thermo Fisher Scientific

Bio-Rad Laboratories

QIAGEN

Roche

Analytik Jena

Eppendorf

Molecular Biology Systems

Bioneer

Agilent Technologies

Meridian Bioscience

Tianlong

LongGene

Bioer Technology

Heal Force

Bigfish Bio-tech

Key Questions Answered:

1. How big is the global Rapid Thermal Cyclers market?
2. What is the demand of the global Rapid Thermal Cyclers market?
3. What is the year over year growth of the global Rapid Thermal Cyclers market?
4. What is the production and production value of the global Rapid Thermal Cyclers market?
5. Who are the key producers in the global Rapid Thermal Cyclers market?
6. What are the growth factors driving the market demand?

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