

Micro Refrigerated Centrifuge Market Forecasts to 2034 – Global Analysis By Type (Floor-standing and Desktop), Application (Clinical Laboratories, Pharmaceuticals, Agricultural Research and Other Applications) and By Geography

<https://marketpublishers.com/r/M911BC160ECCEN.html>

Date: April 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: M911BC160ECCEN

Abstracts

According to Statistics MRC, the Global Micro Refrigerated Centrifuge Market is accounted for \$1.0 billion in 2026 and is expected to reach \$1.8 billion by 2034 growing at a CAGR of 7.5% during the forecast period. A micro refrigerated centrifuge is a specialized laboratory instrument designed for the separation of small volumes of biological samples through centrifugal force while also maintaining a controlled temperature environment. This device is crucial in various applications, particularly in molecular biology, biochemistry, and clinical diagnostics. This centrifuge operates by spinning samples at high speeds, causing particles or components with different densities to separate. It is suitable for handling small sample volumes with temperature control, ensuring accurate and reliable results.

Market Dynamics:

Driver:

Laboratory modernization initiatives

Automated systems can handle a higher volume of samples concurrently, reducing turnaround times for experiments and diagnostic procedures. This is particularly crucial in time-sensitive applications, such as clinical diagnostics, where rapid results are essential for patient care. Moreover, automation minimizes manual intervention, reducing the risk of human errors and ensuring consistent performance across multiple

runs contributing to the reproducibility of results, a crucial factor in scientific research which are boosting this market expansion.

Restraint:

High initial costs

The high initial costs pose a challenge for laboratories and research facilities, particularly those with limited budgets or funding constraints, which could discourage prospective purchasers from implementing automation in their processes. Moreover, this also impacts the return on investment (ROI) calculations for potential buyers, and consequently, the manufacturing and development costs of these centrifuges are high, leading to elevated purchase prices that are impeding market growth.

Opportunity:

Technological advancements

Innovations in robotics play a crucial role in enabling precise sample handling and processing. Advanced sensor technologies enhance the accuracy of centrifugation processes, ensuring optimal results in applications such as DNA/RNA extraction and protein purification, which contribute to the generation of high-quality, reproducible data. Additionally, integration with smart technologies, such as connectivity with laboratory information systems (LIS) and data management software, streamlines workflows and facilitates real-time monitoring of centrifuge operations, thereby driving market growth.

Threat:

Lack of standardization

The absence of standardized protocols and interfaces complicates data management and communication. Different manufacturers may employ varying designs, sizes, and specifications for their centrifuge models, making it challenging to integrate them into automated systems. Furthermore, the lack of compatibility prevents laboratories from easily swapping or upgrading centrifuges without significant modifications or reconfiguration of the automation setup. This can lead to interoperability issues and hinder the market.

Covid-19 Impact

The COVID-19 pandemic has had negative impacts on the micro-refrigerated centrifuge automation market, affecting both demand and supply aspects of the industry. The disruptions in laboratory operations and research activities during lockdowns and restrictions have led to a slowdown in equipment purchases and upgrades. Furthermore, budget constraints and shifting priorities have resulted in postponed investments in automation technologies. This has limited the ability of laboratories to invest in new and advanced micro-refrigerated centrifuges with automation features, which has significantly hampered the market size.

The desktop segment is expected to be the largest during the forecast period

The desktop segment is estimated to hold the largest share due to compact and efficient centrifuge systems designed for use on laboratory desktops. These centrifuges are characterized by their smaller footprint and user-friendly features, advanced control systems, and programmable functionalities that streamline and automate centrifugation processes. In addition, these automated desktop centrifuges are particularly used in applications such as sample preparation, nucleic acid extraction, and protein purification, which are boosting this segment's expansion.

The clinical laboratories segment is expected to have the highest CAGR during the forecast period

The clinical laboratories segment is anticipated to have highest CAGR during the forecast period. These centrifuges are specifically designed to meet the stringent requirements of diagnostic laboratories and medical facilities. Automation features may include programmable protocols, touch-screen interfaces, and integration with laboratory information systems. Furthermore, these advancements contribute to standardized and high-throughput sample processing, allowing clinical laboratories to handle a large volume of samples with precision and consistency, which is driving this segment's growth.

Region with largest share:

Europe commanded the largest market share during the extrapolated period, owing to a growing demand for advanced laboratory equipment designed for efficient and automated sample processing. These advancements are led by the region's emphasis on technological innovation and a commitment to optimizing laboratory workflows with diverse applications, including molecular biology, biochemistry, and clinical diagnostics,

aligning with the region's prominent position in scientific research and healthcare.

Region with highest CAGR:

North America is expected to witness highest CAGR over the projection period. These centrifuges are designed to handle small sample volumes efficiently while incorporating automation for improved precision and workflow optimization. This region is home to some of the major players, including Kubota Corporation, Nicke-Electro Ltd., Axel Global, and Thermo Scientific. In addition, microrefrigerated centrifuges with automation features are integral to research institutions, pharmaceutical companies, and clinical laboratories, which are driving the growth of this region.

Key players in the market

Some of the key players in the Micro Refrigerated Centrifuge Market include Axel Global, Benchmark Scientific, Inc., Eppendorf AG, Esco Scientific, Gyrozen, Hermle Labortechnik GmbH, Hitachi Koki Co., Ltd., Kubota Corporation, lab Force, Nicke-Electro Ltd., Sartorius AG, Scilogex and Thermo Scientific.

Key Developments:

In December 2023, Thermo Fisher Scientific Inc. announced a new partnership to improve the wellbeing and treatment outcomes of adolescents and young persons living with HIV in Nigeria, the country with the second largest HIV epidemic worldwide.

In July 2023, A new benchmark has launched to bring more clarity to the definition of a high-quality carbon credit, which companies are increasingly using to offset their climate impact.

In May 2023, Thermo Fisher, the world leader in serving science, has signed a Memorandum of Understanding ('MOU') with the National Research and Innovation Agency of Indonesia (BRIN, Badan Riset dan Inovasi Nasional) to enable and enhance the country's national research and innovation infrastructure and capability.

Types Covered:

Floor-standing

Desktop

Applications Covered:

Clinical Laboratories

Pharmaceuticals

Agricultural Research

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL MICRO REFRIGERATED CENTRIFUGE MARKET, BY TYPE

Micro Refrigerated Centrifuge Market Forecasts to 2034 – Global Analysis By Type (Floor-standing and Desktop),...

- 5.1 Introduction
- 5.2 Floor-standing
- 5.3 Desktop

6 GLOBAL MICRO REFRIGERATED CENTRIFUGE MARKET, BY APPLICATION

- 6.1 Introduction
- 6.2 Clinical Laboratories
- 6.3 Pharmaceuticals
- 6.4 Agricultural Research
- 6.5 Other Applications

7 GLOBAL MICRO REFRIGERATED CENTRIFUGE MARKET, BY GEOGRAPHY

- 7.1 Introduction
- 7.2 North America
 - 7.2.1 US
 - 7.2.2 Canada
 - 7.2.3 Mexico
- 7.3 Europe
 - 7.3.1 Germany
 - 7.3.2 UK
 - 7.3.3 Italy
 - 7.3.4 France
 - 7.3.5 Spain
 - 7.3.6 Rest of Europe
- 7.4 Asia Pacific
 - 7.4.1 Japan
 - 7.4.2 China
 - 7.4.3 India
 - 7.4.4 Australia
 - 7.4.5 New Zealand
 - 7.4.6 South Korea
 - 7.4.7 Rest of Asia Pacific
- 7.5 South America
 - 7.5.1 Argentina
 - 7.5.2 Brazil
 - 7.5.3 Chile

- 7.5.4 Rest of South America
- 7.6 Middle East & Africa
 - 7.6.1 Saudi Arabia
 - 7.6.2 UAE
 - 7.6.3 Qatar
 - 7.6.4 South Africa
 - 7.6.5 Rest of Middle East & Africa

8 KEY DEVELOPMENTS

- 8.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 8.2 Acquisitions & Mergers
- 8.3 New Product Launch
- 8.4 Expansions
- 8.5 Other Key Strategies

9 COMPANY PROFILING

- 9.1 Axel Global
- 9.2 Benchmark Scientific, Inc.
- 9.3 Eppendorf AG
- 9.4 Esco Scientific
- 9.5 Gyrozen
- 9.6 Hermle Labortechnik GmbH
- 9.7 Hitachi Koki Co., Ltd.
- 9.8 Kubota Corporation
- 9.9 lab Force
- 9.10 Nicke-Electro Ltd.
- 9.11 Sartorius AG
- 9.12 Scilogex
- 9.13 Thermo Scientific

List Of Tables

LIST OF TABLES

Table 1 Global Micro Refrigerated Centrifuge Market Outlook, By Region (2023–2034) (\$MN)

Table 2 Global Micro Refrigerated Centrifuge Market Outlook, By Type (2023–2034) (\$MN)

Table 3 Global Micro Refrigerated Centrifuge Market Outlook, By Floor-standing (2023–2034) (\$MN)

Table 4 Global Micro Refrigerated Centrifuge Market Outlook, By Desktop (2023–2034) (\$MN)

Table 5 Global Micro Refrigerated Centrifuge Market Outlook, By Application (2023–2034) (\$MN)

Table 6 Global Micro Refrigerated Centrifuge Market Outlook, By Clinical Laboratories (2023–2034) (\$MN)

Table 7 Global Micro Refrigerated Centrifuge Market Outlook, By Pharmaceuticals (2023–2034) (\$MN)

Table 8 Global Micro Refrigerated Centrifuge Market Outlook, By Agricultural Research (2023–2034) (\$MN)

Table 9 Global Micro Refrigerated Centrifuge Market Outlook, By Other Applications (2023–2034) (\$MN)

Table 10 North America Micro Refrigerated Centrifuge Market Outlook, By Country (2023–2034) (\$MN)

Table 11 North America Micro Refrigerated Centrifuge Market Outlook, By Type (2023–2034) (\$MN)

Table 12 North America Micro Refrigerated Centrifuge Market Outlook, By Floor-standing (2023–2034) (\$MN)

Table 13 North America Micro Refrigerated Centrifuge Market Outlook, By Desktop (2023–2034) (\$MN)

Table 14 North America Micro Refrigerated Centrifuge Market Outlook, By Application (2023–2034) (\$MN)

Table 15 North America Micro Refrigerated Centrifuge Market Outlook, By Clinical Laboratories (2023–2034) (\$MN)

Table 16 North America Micro Refrigerated Centrifuge Market Outlook, By Pharmaceuticals (2023–2034) (\$MN)

Table 17 North America Micro Refrigerated Centrifuge Market Outlook, By Agricultural Research (2023–2034) (\$MN)

Table 18 North America Micro Refrigerated Centrifuge Market Outlook, By Other

Applications (2023–2034) (\$MN)

Table 19 Europe Micro Refrigerated Centrifuge Market Outlook, By Country (2023–2034) (\$MN)

Table 20 Europe Micro Refrigerated Centrifuge Market Outlook, By Type (2023–2034) (\$MN)

Table 21 Europe Micro Refrigerated Centrifuge Market Outlook, By Floor-standing (2023–2034) (\$MN)

Table 22 Europe Micro Refrigerated Centrifuge Market Outlook, By Desktop (2023–2034) (\$MN)

Table 23 Europe Micro Refrigerated Centrifuge Market Outlook, By Application (2023–2034) (\$MN)

Table 24 Europe Micro Refrigerated Centrifuge Market Outlook, By Clinical Laboratories (2023–2034) (\$MN)

Table 25 Europe Micro Refrigerated Centrifuge Market Outlook, By Pharmaceuticals (2023–2034) (\$MN)

Table 26 Europe Micro Refrigerated Centrifuge Market Outlook, By Agricultural Research (2023–2034) (\$MN)

Table 27 Europe Micro Refrigerated Centrifuge Market Outlook, By Other Applications (2023–2034) (\$MN)

Table 28 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Country (2023–2034) (\$MN)

Table 29 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Type (2023–2034) (\$MN)

Table 30 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Floor-standing (2023–2034) (\$MN)

Table 31 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Desktop (2023–2034) (\$MN)

Table 32 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Application (2023–2034) (\$MN)

Table 33 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Clinical Laboratories (2023–2034) (\$MN)

Table 34 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Pharmaceuticals (2023–2034) (\$MN)

Table 35 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Agricultural Research (2023–2034) (\$MN)

Table 36 Asia Pacific Micro Refrigerated Centrifuge Market Outlook, By Other Applications (2023–2034) (\$MN)

Table 37 South America Micro Refrigerated Centrifuge Market Outlook, By Country (2023–2034) (\$MN)

Table 38 South America Micro Refrigerated Centrifuge Market Outlook, By Type (2023–2034) (\$MN)

Table 39 South America Micro Refrigerated Centrifuge Market Outlook, By Floor-standing (2023–2034) (\$MN)

Table 40 South America Micro Refrigerated Centrifuge Market Outlook, By Desktop (2023–2034) (\$MN)

Table 41 South America Micro Refrigerated Centrifuge Market Outlook, By Application (2023–2034) (\$MN)

Table 42 South America Micro Refrigerated Centrifuge Market Outlook, By Clinical Laboratories (2023–2034) (\$MN)

Table 43 South America Micro Refrigerated Centrifuge Market Outlook, By Pharmaceuticals (2023–2034) (\$MN)

Table 44 South America Micro Refrigerated Centrifuge Market Outlook, By Agricultural Research (2023–2034) (\$MN)

Table 45 South America Micro Refrigerated Centrifuge Market Outlook, By Other Applications (2023–2034) (\$MN)

Table 46 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Country (2023–2034) (\$MN)

Table 47 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Type (2023–2034) (\$MN)

Table 48 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Floor-standing (2023–2034) (\$MN)

Table 49 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Desktop (2023–2034) (\$MN)

Table 50 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Application (2023–2034) (\$MN)

Table 51 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Clinical Laboratories (2023–2034) (\$MN)

Table 52 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Pharmaceuticals (2023–2034) (\$MN)

Table 53 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Agricultural Research (2023–2034) (\$MN)

Table 54 Middle East & Africa Micro Refrigerated Centrifuge Market Outlook, By Other Applications (2023–2034) (\$MN)

I would like to order

Product name: Micro Refrigerated Centrifuge Market Forecasts to 2034 – Global Analysis By Type (Floor-standing and Desktop), Application (Clinical Laboratories, Pharmaceuticals, Agricultural Research and Other Applications) and By Geography

Product link: <https://marketpublishers.com/r/M911BC160ECCEN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M911BC160ECCEN.html>