

Pediatric & Neonatal Intensive Care Equipment Market Forecasts to 2034 - Global Analysis By Equipment Type (Ventilators, Incubators, Monitors, Infusion Pumps, Phototherapy Equipment, Resuscitation Devices, Humidifiers & Oxygen Therapy Equipment and Temperature Management Devices), Patient Group, Distribution Channel, End User and By Geography

<https://marketpublishers.com/r/P2550A850E1DEN.html>

Date: October 2026

Pages: 200

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

ID: P2550A850E1DEN

Abstracts

According to Statistics MRC, the Global Pediatric & Neonatal Intensive Care Equipment Market is accounted for \$10.3 billion in 2026 and is expected to reach \$16.6 billion by 2034 growing at a CAGR of 6.2% during the forecast period. Pediatric & Neonatal Intensive Care Equipment refers to specialized healthcare technologies used to manage newborns, infants, and children receiving critical care. The equipment includes incubators, radiant warmers, ventilators, monitoring systems, phototherapy devices, infusion pumps, and respiratory assistance technologies. These solutions address the distinct clinical needs of younger patients through controlled thermal management, delicate respiratory support, precise drug administration, and continuous physiological observation. Innovations in compact device designs, integrated monitoring capabilities, and connected care platforms are helping healthcare professionals enhance intensive-care processes and provide more consistent and responsive treatment for critically ill pediatric and neonatal patients.

According to WHO, 13.4 million babies were born preterm worldwide in 2020, representing approximately 1 in 10 live births. Premature infants frequently require specialized neonatal care and respiratory support, supporting demand for intensive-care

equipment such as incubators, ventilators, monitors, and temperature-management devices.

Market Dynamics:

Driver:

Rising prevalence of premature births and neonatal complications

Growing numbers of premature infants and newborns experiencing critical medical conditions are supporting demand for Pediatric & Neonatal Intensive Care Equipment. Such patients often need advanced ventilation, controlled temperatures, continuous physiological monitoring, and specialized nutritional support. Consequently, hospitals are investing in neonatal incubators, respiratory devices, infant warmers, phototherapy equipment, and monitoring technologies. Greater recognition of timely neonatal intervention, alongside improvements in survival outcomes, is further encouraging healthcare providers to enhance intensive care capacity and upgrade specialized infrastructure for vulnerable newborns and pediatric patients.

Restraint:

High cost of advanced intensive care equipment

Expensive pediatric and neonatal intensive-care technologies can create barriers to market expansion, especially among healthcare providers operating with constrained budgets. Equipment such as specialized ventilators, incubators, patient monitors, and infusion systems often involves significant purchasing costs. Facilities must also consider ongoing expenditures for servicing, calibration, technical support, replacement components, and personnel training. These financial pressures may cause smaller hospitals and facilities in emerging healthcare markets to postpone modernization initiatives or continue using existing equipment, reducing the pace of adoption for advanced intensive-care technologies.

Opportunity:

Expansion of neonatal and pediatric care in emerging healthcare

Developing healthcare markets offer opportunities as neonatal and pediatric medical services continue expanding. Investments in hospitals, critical-care infrastructure, and maternal-child healthcare are increasing the need for specialized equipment. Newly established or upgraded neonatal intensive care units and pediatric departments require

technologies including incubators, warmers, ventilators, monitoring devices, phototherapy equipment, and infusion systems. Government-supported healthcare initiatives and broader availability of specialized treatment can encourage additional procurement. Equipment manufacturers that provide dependable, affordable, and adaptable solutions can respond to the changing needs of healthcare providers in these regions.

Threat:

Stringent regulatory and safety requirements

Strict regulatory standards and safety obligations may challenge companies operating in the Pediatric & Neonatal Intensive Care Equipment Market. Equipment intended for vulnerable infants and children requires thorough evaluation of safety, reliability, performance, and clinical suitability. Manufacturers must often complete extensive testing, documentation, certification, and approval processes before commercialization. Changes in regulatory frameworks can add further complexity and expenses. Consequently, compliance requirements may extend development timelines, increase production costs, and make market entry more difficult for smaller manufacturers competing with established pediatric and neonatal equipment providers.

Covid-19 Impact:

The COVID-19 pandemic influenced the Pediatric & Neonatal Intensive Care Equipment Market through changes in hospital resource allocation and medical-device supply. Many healthcare providers prioritized pandemic response, placing pressure on intensive-care beds, personnel, and equipment, while logistics disruptions affected device procurement. Clinical concerns regarding respiratory complications in some pediatric and neonatal patients also highlighted the importance of ventilation, monitoring, and respiratory-support technologies. Meanwhile, hospitals increased emphasis on infection prevention, remote observation, and emergency preparedness, encouraging continued development and investment in pediatric and neonatal critical-care capabilities.

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

The ventilators segment is expected to account for the largest market share during the forecast period, reflecting the essential role of respiratory support in treating critically ill young patients. Newborns, premature infants, and children experiencing respiratory distress, infections, congenital disorders, or recovery following surgery can require

mechanical assistance for effective breathing and oxygen delivery. Advances in ventilation technology have enabled more patient-sensitive modes, improved synchronization, and enhanced control of respiratory parameters. Growing focus on specialized respiratory care continues to reinforce the importance of ventilators within pediatric and neonatal intensive-care environments.

The homecare settings segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the homecare settings segment is predicted to witness the highest growth rate as more specialized care moves into residential environments. Development of portable, compact, and easier-to-operate devices is supporting the management of selected pediatric and neonatal conditions at home. Demand for convenient long-term care solutions is also increasing among families and providers. Furthermore, remote patient monitoring, telehealth integration, caregiver education, and expanding home healthcare services can facilitate broader use of pediatric and neonatal equipment in home-based care environments.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by developed healthcare systems, specialized NICU infrastructure, and widespread use of advanced clinical technologies. Hospitals and pediatric facilities across the region utilize sophisticated equipment for respiratory assistance, patient monitoring, temperature management, and neonatal treatment. Demand is further supported by the need to care for premature and medically fragile newborns. According to the CDC, neonatal intensive care admissions reached 9.8% of U.S. infants in 2023, reinforcing regional equipment requirements.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR as healthcare systems expand and investments in maternal and newborn services increase. Regional initiatives are improving specialized facilities, medical technologies, workforce capabilities, and access to critical neonatal treatment. According to WHO, South-East Asian countries are strengthening national strategies for newborn and child health, including healthcare-system improvements. Such initiatives are supporting greater availability and adoption of specialized equipment across pediatric and neonatal intensive-care facilities throughout the region.

Key players in the market

Some of the key players in Pediatric & Neonatal Intensive Care Equipment Market include GE HealthCare, Dräger, Medtronic, Philips, Fisher & Paykel Healthcare, Nihon Kohden, Masimo, Vyair Medical, Becton, Dickinson and Company, Atom Medical, Fanem, Natus Medical, Inspiration Healthcare, Mindray, Phoenix Medical Systems, Nice Neotech Medical Systems, GINEVRI and ICU Medical.

Key Developments:

In April 2026, GE HealthCare announced an expanded collaboration with DeepHealth, Inc, to further the innovation, commercialization, and adoption of advanced AI-powered mammography tools. The announcement coincides with the Society of Breast Imaging (SBI) Annual Symposium, where GE HealthCare will showcase its latest advancements in breast imaging and women's health.

In February 2026, Medtronic has agreed to acquire CathWorks, an Israeli medtech company focused on the diagnosis and treatment of coronary artery disease, for up to \$585 million. CathWorks is known for its FFRangio technology, which uses advanced artificial intelligence (AI) algorithms and computational science to obtain fractional flow reserve (FFR) measurements of the coronary tree from routine X-ray images.

In October 2025, Philips Healthcare and Getinge have formed a new commercial partnership in Europe to offer customers easier access to a complete anesthesia and monitoring solution. By combining Philips' monitoring solutions with Getinge's leading anesthesia care products, the partnership provides a single point of contact for purchasing and support, helping clinicians deliver high-quality care in the operating room.

Equipment Types Covered:

Ventilators

Incubators

Monitors

Infusion Pumps

Phototherapy Equipment

Resuscitation Devices

Humidifiers & Oxygen Therapy Equipment

Temperature Management Devices

Patient Groups Covered:

Neonates (0-28 days)

Infants (1-12 months)

Pediatrics (1-12 years)

Distribution Channels Covered:

Direct Institutional Sales

Retail & Pharmacy Sales

Online Platforms

End Users Covered:

Hospitals

Ambulatory Surgical Centers

Homecare Settings

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL PEDIATRIC & NEONATAL INTENSIVE CARE EQUIPMENT MARKET, BY EQUIPMENT TYPE

- 5.1 Ventilators
- 5.2 Incubators
- 5.3 Monitors
- 5.4 Infusion Pumps
- 5.5 Phototherapy Equipment
- 5.6 Resuscitation Devices
- 5.7 Humidifiers & Oxygen Therapy Equipment
- 5.8 Temperature Management Devices

6 GLOBAL PEDIATRIC & NEONATAL INTENSIVE CARE EQUIPMENT MARKET, BY PATIENT GROUP

- 6.1 Neonates (0-28 days)
- 6.2 Infants (1-12 months)
- 6.3 Pediatrics (1-12 years)

7 GLOBAL PEDIATRIC & NEONATAL INTENSIVE CARE EQUIPMENT MARKET, BY DISTRIBUTION CHANNEL

- 7.1 Direct Institutional Sales
- 7.2 Retail & Pharmacy Sales
- 7.3 Online Platforms

8 GLOBAL PEDIATRIC & NEONATAL INTENSIVE CARE EQUIPMENT MARKET, BY END USER

- 8.1 Hospitals
- 8.2 Ambulatory Surgical Centers
- 8.3 Homecare Settings

9 GLOBAL PEDIATRIC & NEONATAL INTENSIVE CARE EQUIPMENT MARKET, BY GEOGRAPHY

- 9.1 North America
 - 9.1.1 United States
 - 9.1.2 Canada
 - 9.1.3 Mexico
- 9.2 Europe
 - 9.2.1 United Kingdom
 - 9.2.2 Germany
 - 9.2.3 France
 - 9.2.4 Italy
 - 9.2.5 Spain
 - 9.2.6 Netherlands
 - 9.2.7 Belgium
 - 9.2.8 Sweden
 - 9.2.9 Switzerland
 - 9.2.10 Poland
 - 9.2.11 Rest of Europe
- 9.3 Asia Pacific
 - 9.3.1 China
 - 9.3.2 Japan
 - 9.3.3 India
 - 9.3.4 South Korea
 - 9.3.5 Australia
 - 9.3.6 Indonesia
 - 9.3.7 Thailand
 - 9.3.8 Malaysia
 - 9.3.9 Singapore
 - 9.3.10 Vietnam
 - 9.3.11 Rest of Asia Pacific
- 9.4 South America
 - 9.4.1 Brazil
 - 9.4.2 Argentina
 - 9.4.3 Colombia
 - 9.4.4 Chile
 - 9.4.5 Peru
 - 9.4.6 Rest of South America
- 9.5 Rest of the World (RoW)
 - 9.5.1 Middle East
 - 9.5.1.1 Saudi Arabia

9.5.1.2 United Arab Emirates

9.5.1.3 Qatar

9.5.1.4 Israel

9.5.1.5 Rest of Middle East

9.5.2 Africa

9.5.2.1 South Africa

9.5.2.2 Egypt

9.5.2.3 Morocco

9.5.2.4 Rest of Africa

10 STRATEGIC MARKET INTELLIGENCE

10.1 Industry Value Network and Supply Chain Assessment

10.2 White-Space and Opportunity Mapping

10.3 Product Evolution and Market Life Cycle Analysis

10.4 Channel, Distributor, and Go-to-Market Assessment

11 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

11.1 Mergers and Acquisitions

11.2 Partnerships, Alliances, and Joint Ventures

11.3 New Product Launches and Certifications

11.4 Capacity Expansion and Investments

11.5 Other Strategic Initiatives

12 COMPANY PROFILES

12.1 GE HealthCare

12.2 Dräger

12.3 Medtronic

12.4 Philips

12.5 Fisher & Paykel Healthcare

12.6 Nihon Kohden

12.7 Masimo

12.8 Vyaire Medical

12.9 Becton, Dickinson and Company

12.10 Atom Medical

12.11 Fanem

12.12 Natus Medical

12.13 Inspiration Healthcare

12.14 Mindray

12.15 Phoenix Medical Systems

12.16 Nice Neotech Medical Systems

12.17 GINEVRI

12.18 ICU Medical

List of Tables

Table 1 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Equipment Type (2023-2034) (\$MN)

Table 3 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Ventilators (2023-2034) (\$MN)

Table 4 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Incubators (2023-2034) (\$MN)

Table 5 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Monitors (2023-2034) (\$MN)

Table 6 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Infusion Pumps (2023-2034) (\$MN)

Table 7 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Phototherapy Equipment (2023-2034) (\$MN)

Table 8 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Resuscitation Devices (2023-2034) (\$MN)

Table 9 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Humidifiers & Oxygen Therapy Equipment (2023-2034) (\$MN)

Table 10 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Temperature Management Devices (2023-2034) (\$MN)

Table 11 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Patient Group (2023-2034) (\$MN)

Table 12 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Neonates (0-28 days) (2023-2034) (\$MN)

Table 13 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Infants (1-12 months) (2023-2034) (\$MN)

Table 14 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Pediatrics (1-12 years) (2023-2034) (\$MN)

Table 15 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Distribution Channel (2023-2034) (\$MN)

Table 16 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Direct Institutional Sales (2023-2034) (\$MN)

Table 17 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Retail & Pharmacy Sales (2023-2034) (\$MN)

Table 18 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Online Platforms (2023-2034) (\$MN)

Table 19 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By End User (2023-2034) (\$MN)

Table 20 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Hospitals (2023-2034) (\$MN)

Table 21 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Ambulatory Surgical Centers (2023-2034) (\$MN)

Table 22 Global Pediatric & Neonatal Intensive Care Equipment Market Outlook, By Homecare Settings (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

I would like to order

Product name: Pediatric & Neonatal Intensive Care Equipment Market Forecasts to 2034 - Global Analysis By Equipment Type (Ventilators, Incubators, Monitors, Infusion Pumps, Phototherapy Equipment, Resuscitation Devices, Humidifiers & Oxygen Therapy Equipment and Temperature Management Devices), Patient Group, Distribution Channel, End User and By Geography

Product link: <https://marketpublishers.com/r/P2550A850E1DEN.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/P2550A850E1DEN.html>