

Portable Internet Of Things (IoT) Vaccine Fridge Market to Reach US \$9.32 Billion by 2029

*The Business Research Company's
Portable Internet Of Things (IoT) Vaccine
Fridge Global Market Report 2025 –
Market Size, Trends, And Global Forecast
2025-2034*

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Portable Internet Of Things (IoT) Vaccine Fridge
Global Market Report 2025

What Is The Estimated Industry Size Of [Portable Internet Of Things \(IoT\) Vaccine Fridge Market?](#)

The market size for portable IoT (Internet of Things) vaccine refrigeration systems has seen a considerable expansion in recent years. The market is set to grow from \$4.45 billion in 2024 to \$5.17 billion in 2025, at a compound annual growth rate (CAGR) of 16.2%. Various factors have played a significant role in this historic growth, including higher childhood vaccination campaigns, increased government investment in cold-chain infrastructure, expanded vaccine volumes due to extended schedules, spikes during emergency vaccination drives in response to outbreaks, developments in healthcare outreach in remote and rural areas, and a surge in procurements by international health organizations.

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It is anticipated that the market size for portable IoT vaccine refrigeration will witness significant growth in the coming years, with an expected value of \$9.32 billion in 2029, reflecting a compound annual growth rate (CAGR) of 15.9%. This growth forecast can be credited to factors like increasing preparedness towards pandemics and disasters at the national level, a greater focus on resilience in last-mile vaccine delivery, an uptick in adult and booster vaccination programs, a rise in involvement of private healthcare in vaccinations, expanded humanitarian

operations in zones of conflict and disaster, and growing regulatory enforcement for temperature adherence in handling vaccines. Key trends for the forecast period include progress in real-time temperature sensing and connectivity technology, advancements in energy-efficient compressors and insulation materials, innovative hybrid power systems that combine solar and battery storage, developments in predictive maintenance and remote alert protocols, and research and development in phase change materials for prolonged storage, as well as technological progress in secure cloud dashboards and data analytics.

Download a free sample of the portable internet of things (iot) vaccine fridge market report:
<https://www.thebusinessresearchcompany.com/sample.aspx?id=29153&type=smp>

What Are The Major Factors Driving The [Portable Internet Of Things \(IoT\) Vaccine Fridge Global Market Growth](#)?

The portable Internet of Things (IoT) vaccine fridge market is predicted to grow due to the escalation of vaccination initiatives. This expansion pertains to a systematic upturn in immunization programs, the debut of new vaccines in national schedules, and reaching wider demographics through improved delivery systems. The primary growth driver of these vaccination programs is international health drives aimed at controllable diseases, with global organizations and governments focusing on filling immunity gaps caused by pandemic-induced healthcare disruptions. IoT vaccine fridges support these initiatives by accurately maintaining required temperatures, ensuring vaccine efficacy, providing real-time monitoring and sending alerts to curb wastage and boost inventory control. For instance, in July 2024, data from UNICEF, a US-based worldwide humanitarian organ aiding children, revealed that the worldwide proportion of teenage girls receiving at least one dose of the HPV vaccine climbed from 20% in 2022 to 27% in 2023, signifying a seven-percent increase. As such, the growth of the portable IoT vaccine fridge market is fueled by the amplification of vaccination initiatives.

Who Are The Leading Companies In The Portable Internet Of Things (IoT) Vaccine Fridge Market?

Major players in the Portable Internet Of Things (IoT) Vaccine Fridge Global Market Report 2025 include:

- Trane Technologies Public Limited Company
- Liebherr International AG
- Dometic Group AB publ
- Haier Group Corporation
- Godrej Enterprises Group
- Aucma Co. Ltd.
- Blue Star Limited
- Accucold by Felix Storch Inc.
- Vestfrost Solutions A S
- Dulas Limited

What Are The Major Trends That Will Shape The Portable Internet Of Things (IoT) Vaccine Fridge

Market In The Future?

Key players in the portable Internet of Things (IoT) vaccine fridge market are putting more resources into rapid cooling systems to boost temperature steadiness and enhance real-time monitoring. The investment in rapid cooling technology involves channeling funds towards innovative methods that fast-track temperature reduction and maintain stability in refrigeration units. This invariably ensures vaccine safety through minimizing thermal fluctuations and providing dependable cooling in various environments. For instance, in July 2025, Blackfrog Technologies, an Indian medical device company with specialization in cold chain technology for securely transporting vaccines and medical specimens, received a \$1 million investment from the Global Innovation Fund (GIF), a UK-based non-profit, impact-first investment fund. This form of investment was made possible through GIF's new \$120 million climate-health impact fund named Thrive and was part of a pre-Series A funding round. Other contributors to this round included Manipal Education and Medical Group and Rainmatter Foundation. The financial aid expanded Blackfrog's rapid cooling technology application and their product, Envólio portable temperature-focused refrigerators. These refrigerators have been in use in rural health facilities in India, Nigeria, and Kenya, enhancing vaccine delivery and reducing waste in the face of climatic difficulties.

What Are The Primary Segments Covered In The Global Portable Internet Of Things (IoT) Vaccine Fridge Market Report?

The portable internet of things (iot) vaccine fridgemarket covered in this report is segmented –

- 1) By Product Type: Solar-Powered, Battery-Powered, Hybrid
- 2) By Connectivity: Wireless Fidelity (Wi-Fi), Bluetooth, Cellular, Other Connectivities
- 3) By Capacity: Below 50 Liters, 50 To 100 Liters, Above 100 Liters
- 4) By Application: Hospitals And Clinics, Vaccination Centers, Mobile Healthcare Units, Research Institutes, Other Applications
- 5) By End-User: Public Health Agencies, Non-Governmental Organizations (NGOs), Private Healthcare Providers, Other End-Users

Subsegments:

- 1) By Solar-Powered: Direct Solar Refrigerators, Solar-Driven Absorption Refrigerators, Photovoltaic-Powered Compressor Refrigerators, Solar-Powered Portable Coolers
- 2) By Battery-Powered: Rechargeable Lithium-Ion Battery Units, Nickel-Metal Hydride Battery Units, Lead-Acid Battery Units, Removable Battery Pack Models
- 3) By Hybrid: Solar And Battery Combination Units, Alternating Current (AC) Or Direct Current (DC) Hybrid Refrigerators, Solar-Grid Hybrid Systems, Generator-Assisted Hybrid Units

View the full portable internet of things (iot) vaccine fridge market report:

<https://www.thebusinessresearchcompany.com/report/portable-internet-of-things-iot-vaccine-fridge-global-market-report>

Which Region Is Forecasted To Grow The Fastest In The Portable Internet Of Things (IoT) Vaccine Fridge Industry?

In 2024, North America held the leading position in the global market for portable Internet of Things (IoT) vaccine fridges. The region with the most significant predicted growth is Asia-Pacific. The market report encompasses various regions, including North America, Asia-Pacific, Western Europe, Eastern Europe, South America, the Middle East, and Africa.

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