

# **United States Patient Temperature Management Market By Type (Patient Warming Systems, Patient Cooling Systems, Dual Technology, Consumables, Others), By Application (General Surgery, Cardiology, Pediatrics, Neurology, Orthopedic Surgery, Thoracic Surgery, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F**

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## **Abstracts**

### Market Overview

United States Patient Temperature Management Market was valued at USD 1.07 Billion in 2024 and is expected to reach USD 1.47 Billion by 2030 with a CAGR of 5.62%. Temperature management, which includes both warming and cooling therapies, is especially vital in surgical settings, intensive care units, emergency care, and for patients suffering from conditions such as cardiac arrest, stroke, or trauma. In recent years, the demand for effective temperature control solutions has grown significantly in the U.S., largely due to the rising number of surgical procedures.

As the population continues to age and the prevalence of chronic conditions such as cardiovascular and neurological disorders increases, hospitals and healthcare providers are placing greater emphasis on maintaining normothermia as part of standard clinical practice. Despite the market's positive trajectory, challenges remain. One of the primary barriers to widespread adoption is the high cost of advanced temperature management systems, which can be a significant burden for smaller or underfunded healthcare facilities.

### Key Market Drivers

## Growth in Healthcare Industry

In 2023, U.S. health care expenditures increased by 7.5%, totaling USD 4.9 trillion, or approximately USD 14,570 per capita. Health care spending represented 17.6% of the nation's Gross Domestic Product (GDP). The continuous expansion of the U.S. healthcare industry serves as a significant catalyst for the growth of the patient temperature management market. As hospitals, surgical centers, and emergency care facilities increase in number and scale, there is a corresponding rise in demand for advanced temperature regulation solutions to ensure optimal patient outcomes.

Approximately 129 million people in the U.S. have at least one major chronic condition, according to the Department of Health and Human Services. Five of the top ten causes of death are preventable or closely linked to treatable chronic diseases. The growing prevalence of chronic conditions, increased surgical volumes, and a heightened focus on patient safety and post-operative care further necessitate the use of temperature management systems. Additionally, investments in healthcare infrastructure, technological advancements, and adherence to stringent clinical protocols contribute to the widespread adoption of these systems.

## Key Market Challenges

### High Costs & Financial Barriers

High costs and financial barriers represent significant challenges within the United States Patient Temperature Management Market. Advanced temperature management systems, which include sophisticated warming and cooling devices, often require substantial upfront investments. The capital expenditure involved in procuring these technologies can be prohibitive, particularly for smaller hospitals, outpatient clinics, and ambulatory surgical centers operating under tight budget constraints.

In addition to initial purchase costs, ongoing expenses such as maintenance, consumables, and staff training further contribute to the financial burden. These cumulative costs can deter healthcare providers from adopting or fully integrating temperature management solutions into their clinical protocols, despite the proven benefits for patient safety and surgical outcomes.

## Key Market Trends

## Rise of Non-Invasive Temperature Management Solutions

The increasing adoption of non-invasive temperature management solutions represents a prominent trend shaping the U.S. patient temperature management market. Non-invasive medical temperature management solutions available in the United States include the Bair Hugger and Arctic Sun systems. The Bair Hugger system primarily utilizes forced-air warming with disposable blankets to prevent perioperative hypothermia, whereas the Arctic Sun Stat TTM system employs gel pads with automated feedback for precise temperature control and monitoring in critically ill patients. These solutions offer significant advantages, including enhanced patient comfort, reduced risk of infection, and ease of use, which align with the evolving preferences of healthcare providers and patients alike.

Technological advancements have led to the development of sophisticated devices capable of accurately monitoring and regulating patient temperature without the need for intrusive procedures. This shift towards non-invasive methods is driven by the growing demand for minimally disruptive interventions in critical care, surgical, and emergency settings. As healthcare facilities prioritize improved patient outcomes and operational efficiency, non-invasive temperature management solutions are gaining traction, contributing to the dynamic growth and innovation within the market.

### Key Market Players

Stryker Corporation

Zoll Medical Corporation

Medtronic Plc

Bard Medical

Cincinnati Sub-Zero Products, Llc

3M Company

Pintler Medical

ECOLAB INC.

## Report Scope

In this report, the United States Patient Temperature Management Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### United States Patient Temperature Management Market, By Type:

Patient Warming Systems

Patient Cooling Systems

Dual Technology

Consumables

Others

### United States Patient Temperature Management Market, By Application:

General Surgery

Cardiology

Pediatrics

Neurology

Orthopedic Surgery

Thoracic Surgery

Others

### United States Patient Temperature Management Market, By Region:

Northeast

Midwest

South

West

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the United States Patient Temperature Management Market.

## Available Customizations:

United States Patient Temperature Management Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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