

Global Patient Cooling System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Patient Cooling System market size is expected to reach \$ 3329 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Patient temperature management systems refer to a category of medical devices that actively regulate core body temperature through physical means to achieve therapeutic hypothermia, perioperative temperature protection, or symptom management. These systems hold significant clinical value?they improve neurological outcomes following cardiac arrest resuscitation through targeted temperature management, prevent chemotherapy-induced hair loss via scalp cooling to enhance patient quality of life, and reduce mortality and disability rates in the treatment of neonatal hypoxic-ischemic encephalopathy through whole-body cooling. From an industry boundary perspective, the essential distinction between patient temperature management systems and conventional physical cooling devices lies in their clinical-grade capabilities, including closed-loop temperature control, precise maintenance of target temperature, and real-time treatment monitoring. Product forms encompass surface cooling systems such as cooling pads and cooling caps, intravascular heat exchange catheter systems, and portable cooling devices, with applications extending from intensive care units and operating rooms to oncology outpatient chemotherapy centers. Against the macro backdrop of accelerating global aging, rising incidence of cardiovascular diseases, and extended survival in cancer treatment, the functional positioning of these systems has evolved from supportive care tools to core therapeutic devices that directly influence clinical outcomes, with their industrial value undergoing continuous reassessment as evidence-based medical evidence accumulates.

Market Development Opportunities and Key Drivers

In critical care medicine, targeted temperature management has become the standard protocol for neurological protection after cardiac arrest, with authoritative domestic and international guidelines incorporating it into core treatment pathways, driving sustained demand for precision temperature control devices in intensive care units. In the surgical field, the widespread adoption of robotic surgery has introduced new clinical challenges such as intraoperative hypothermia and patient displacement, prompting healthcare institutions to accelerate the adoption of integrated temperature management solutions. On the payment policy front, U.S. Medicare included scalp cooling systems in outpatient and physician service reimbursement in 2026, significantly reducing patient out-of-pocket costs and further expanding market space. On the technology front, cross-industry technologies such as automotive thermal control are migrating into the medical field, driving rapid innovation in integrated patient warming and positioning devices.

Market Challenges and Risks

Mutually imposed tariffs between China and the United States have driven up costs for core components such as temperature sensors and electronic control modules, prompting multinational companies to restructure their global supply chains. On the payment side, although scalp cooling systems have received new Medicare reimbursement codes, U.S. Medicare has bundled payment for ancillary services, resulting in actual reimbursement rates lower than those in 2025, which may affect healthcare institutions' purchasing enthusiasm. In clinical applications, improper use or inadequate monitoring of temperature control devices may lead to complications, making healthcare institutions more cautious about equipment procurement when standardized operating procedures are not yet fully established.

Downstream Demand Trends

In the oncology field, demand for chemotherapy-induced hair loss prevention is growing rapidly. Over 900 cancer centers in the United States have already equipped themselves with scalp cooling systems, and under the impetus of 2026 Medicare policies, penetration rates in community oncology centers are expected to increase further. In perioperative care, the proliferation of minimally invasive and same-day surgery has made intraoperative temperature management a quality control priority, driving sustained demand for efficient, user-friendly integrated heating and cooling surface devices in operating rooms. In the neonatal critical care field, therapeutic hypothermia for hypoxic-ischemic encephalopathy has become a key clinical intervention, driving increasing adoption of specialized neonatal temperature control

devices.

Regional Trends

North America, with its well-established clinical guidelines and reimbursement systems, is driving the transformation of temperature management systems from optional equipment to standard configurations, with product innovation progressively evolving toward multifunctional integration. Europe has a long history of applying temperature management in critical care, with countries such as Germany and the United Kingdom continuing to explore new indications in traumatic brain injury and stroke. The Asia-Pacific region is experiencing the most rapid growth, as intensive care bed expansion, private healthcare upgrades, and medical tourism development in China and India collectively drive demand for high-end temperature control devices. Meanwhile, trade policy uncertainties are prompting multinational companies to accelerate the establishment of localized production in Asia-Pacific to mitigate supply chain risks arising from tariff fluctuations.

This report studies the global Patient Cooling System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Patient Cooling System 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 Patient Cooling System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Patient Cooling System total production and demand, 2021-2032, (Units)

Global Patient Cooling System total production value, 2021-2032, (USD Million)

Global Patient Cooling System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Patient Cooling System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Patient Cooling System domestic production, consumption, key domestic manufacturers and share

Global Patient Cooling System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Patient Cooling System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Patient Cooling System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Patient Cooling System 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 3M, ZOLL Medical, ICU Medical, Stryker, Biegler, Fanem, Inspiration Healthcare, Gentherm, EM-MED, ????, 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 Patient Cooling System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Patient Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Patient Cooling System Market, Segmentation by Type:

Surface Cooling Systems

Intravascular Cooling Systems

Global Patient Cooling System Market, Segmentation by Cooling Mechanism:

Conductive Cooling

Convective Cooling

Evaporative Cooling

Endovascular Heat Exchange

Global Patient Cooling System Market, Segmentation by Cooling Site:

Whole-Body Cooling

Regional Cooling

Global Patient Cooling System Market, Segmentation by Temperature Range:

Normothermia Maintenance

Mild Hypothermia

Moderate Hypothermia

Deep Hypothermia

Global Patient Cooling System Market, Segmentation by Application:

Perioperative Care

Newborn Care

Acute Care

Companies Profiled:

3M

ZOLL Medical

ICU Medical

Stryker

Biegler

Fanem

Inspiration Healthcare

Gentherm

EM-MED

????

Key Questions Answered:

1. How big is the global Patient Cooling System market?
2. What is the demand of the global Patient Cooling System market?
3. What is the year over year growth of the global Patient Cooling System market?
4. What is the production and production value of the global Patient Cooling System market?
5. Who are the key producers in the global Patient Cooling System market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Patient Cooling System Introduction
- 1.2 World Patient Cooling System Supply & Forecast
 - 1.2.1 World Patient Cooling System Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Patient Cooling System Production (2021-2032)
 - 1.2.3 World Patient Cooling System Pricing Trends (2021-2032)
- 1.3 World Patient Cooling System Production by Region (Based on Production Site)
 - 1.3.1 World Patient Cooling System Production Value by Region (2021-2032)
 - 1.3.2 World Patient Cooling System Production by Region (2021-2032)
 - 1.3.3 World Patient Cooling System Average Price by Region (2021-2032)
 - 1.3.4 North America Patient Cooling System Production (2021-2032)
 - 1.3.5 Europe Patient Cooling System Production (2021-2032)
 - 1.3.6 Asia Patient Cooling System Production (2021-2032)
 - 1.3.7 Latin America Patient Cooling System Production (2021-2032)
 - 1.3.8 Middle East & Africa Patient Cooling System Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Patient Cooling System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Patient Cooling System Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Patient Cooling System Demand (2021-2032)
- 2.2 World Patient Cooling System Consumption by Region
 - 2.2.1 World Patient Cooling System Consumption by Region (2021-2026)
 - 2.2.2 World Patient Cooling System Consumption Forecast by Region (2027-2032)
- 2.3 United States Patient Cooling System Consumption (2021-2032)
- 2.4 China Patient Cooling System Consumption (2021-2032)
- 2.5 Europe Patient Cooling System Consumption (2021-2032)
- 2.6 Japan Patient Cooling System Consumption (2021-2032)
- 2.7 South Korea Patient Cooling System Consumption (2021-2032)
- 2.8 ASEAN Patient Cooling System Consumption (2021-2032)
- 2.9 India Patient Cooling System Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Patient Cooling System Production Value by Manufacturer (2021-2026)
- 3.2 World Patient Cooling System Production by Manufacturer (2021-2026)
- 3.3 World Patient Cooling System Average Price by Manufacturer (2021-2026)
- 3.4 Patient Cooling System Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Patient Cooling System Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Patient Cooling System in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Patient Cooling System in 2025
- 3.6 Patient Cooling System Market: Overall Company Footprint Analysis
 - 3.6.1 Patient Cooling System Market: Region Footprint
 - 3.6.2 Patient Cooling System Market: Company Product Type Footprint
 - 3.6.3 Patient Cooling System Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Patient Cooling System Production Value Comparison
 - 4.1.1 United States VS China: Patient Cooling System Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Patient Cooling System Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Patient Cooling System Production Comparison
 - 4.2.1 United States VS China: Patient Cooling System Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Patient Cooling System Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Patient Cooling System Consumption Comparison
 - 4.3.1 United States VS China: Patient Cooling System Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Patient Cooling System Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Patient Cooling System Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Patient Cooling System Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Patient Cooling System Production Value (2021-2026)

4.4.3 United States Based Manufacturers Patient Cooling System Production (2021-2026)

4.5 China Based Patient Cooling System Manufacturers and Market Share

4.5.1 China Based Patient Cooling System Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Patient Cooling System Production Value (2021-2026)

4.5.3 China Based Manufacturers Patient Cooling System Production (2021-2026)

4.6 Rest of World Based Patient Cooling System Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Patient Cooling System Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Patient Cooling System Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Patient Cooling System Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Patient Cooling System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Surface Cooling Systems

5.2.2 Intravascular Cooling Systems

5.3 Market Segment by Type

5.3.1 World Patient Cooling System Production by Type (2021-2032)

5.3.2 World Patient Cooling System Production Value by Type (2021-2032)

5.3.3 World Patient Cooling System Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COOLING MECHANISM

6.1 World Patient Cooling System Market Size Overview by Cooling Mechanism: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Cooling Mechanism

6.2.1 Conductive Cooling

6.2.2 Convective Cooling

6.2.3 Evaporative Cooling

6.2.4 Endovascular Heat Exchange

6.3 Market Segment by Cooling Mechanism

6.3.1 World Patient Cooling System Production by Cooling Mechanism (2021-2032)

6.3.2 World Patient Cooling System Production Value by Cooling Mechanism (2021-2032)

6.3.3 World Patient Cooling System Average Price by Cooling Mechanism (2021-2032)

7 MARKET ANALYSIS BY COOLING SITE

7.1 World Patient Cooling System Market Size Overview by Cooling Site: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cooling Site

7.2.1 Whole-Body Cooling

7.2.2 Regional Cooling

7.3 Market Segment by Cooling Site

7.3.1 World Patient Cooling System Production by Cooling Site (2021-2032)

7.3.2 World Patient Cooling System Production Value by Cooling Site (2021-2032)

7.3.3 World Patient Cooling System Average Price by Cooling Site (2021-2032)

8 MARKET ANALYSIS BY TEMPERATURE RANGE

8.1 World Patient Cooling System Market Size Overview by Temperature Range: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Temperature Range

8.2.1 Normothermia Maintenance

8.2.2 Mild Hypothermia

8.2.3 Moderate Hypothermia

8.2.4 Deep Hypothermia

8.3 Market Segment by Temperature Range

8.3.1 World Patient Cooling System Production by Temperature Range (2021-2032)

8.3.2 World Patient Cooling System Production Value by Temperature Range (2021-2032)

8.3.3 World Patient Cooling System Average Price by Temperature Range (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Patient Cooling System Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Perioperative Care

9.2.2 Newborn Care

9.2.3 Acute Care

9.3 Market Segment by Application

9.3.1 World Patient Cooling System Production by Application (2021-2032)

9.3.2 World Patient Cooling System Production Value by Application (2021-2032)

9.3.3 World Patient Cooling System Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 3M

10.1.1 3M Details

10.1.2 3M Major Business

10.1.3 3M Patient Cooling System Product and Services

10.1.4 3M Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 3M Recent Developments/Updates

10.1.6 3M Competitive Strengths & Weaknesses

10.2 ZOLL Medical

10.2.1 ZOLL Medical Details

10.2.2 ZOLL Medical Major Business

10.2.3 ZOLL Medical Patient Cooling System Product and Services

10.2.4 ZOLL Medical Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 ZOLL Medical Recent Developments/Updates

10.2.6 ZOLL Medical Competitive Strengths & Weaknesses

10.3 ICU Medical

10.3.1 ICU Medical Details

10.3.2 ICU Medical Major Business

10.3.3 ICU Medical Patient Cooling System Product and Services

10.3.4 ICU Medical Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 ICU Medical Recent Developments/Updates

10.3.6 ICU Medical Competitive Strengths & Weaknesses

10.4 Stryker

10.4.1 Stryker Details

10.4.2 Stryker Major Business

10.4.3 Stryker Patient Cooling System Product and Services

- 10.4.4 Stryker Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 Stryker Recent Developments/Updates
- 10.4.6 Stryker Competitive Strengths & Weaknesses
- 10.5 Biegler
 - 10.5.1 Biegler Details
 - 10.5.2 Biegler Major Business
 - 10.5.3 Biegler Patient Cooling System Product and Services
 - 10.5.4 Biegler Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Biegler Recent Developments/Updates
 - 10.5.6 Biegler Competitive Strengths & Weaknesses
- 10.6 Fanem
 - 10.6.1 Fanem Details
 - 10.6.2 Fanem Major Business
 - 10.6.3 Fanem Patient Cooling System Product and Services
 - 10.6.4 Fanem Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Fanem Recent Developments/Updates
 - 10.6.6 Fanem Competitive Strengths & Weaknesses
- 10.7 Inspiration Healthcare
 - 10.7.1 Inspiration Healthcare Details
 - 10.7.2 Inspiration Healthcare Major Business
 - 10.7.3 Inspiration Healthcare Patient Cooling System Product and Services
 - 10.7.4 Inspiration Healthcare Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Inspiration Healthcare Recent Developments/Updates
 - 10.7.6 Inspiration Healthcare Competitive Strengths & Weaknesses
- 10.8 Gentherm
 - 10.8.1 Gentherm Details
 - 10.8.2 Gentherm Major Business
 - 10.8.3 Gentherm Patient Cooling System Product and Services
 - 10.8.4 Gentherm Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Gentherm Recent Developments/Updates
 - 10.8.6 Gentherm Competitive Strengths & Weaknesses
- 10.9 EM-MED
 - 10.9.1 EM-MED Details
 - 10.9.2 EM-MED Major Business

- 10.9.3 EM-MED Patient Cooling System Product and Services
- 10.9.4 EM-MED Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 EM-MED Recent Developments/Updates
- 10.9.6 EM-MED Competitive Strengths & Weaknesses
- 10.10 ?????
- 10.10.1 ???? Details
- 10.10.2 ???? Major Business
- 10.10.3 ???? Patient Cooling System Product and Services
- 10.10.4 ???? Patient Cooling System Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 ???? Recent Developments/Updates
- 10.10.6 ???? Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Patient Cooling System Industry Chain
- 11.2 Patient Cooling System Upstream Analysis
 - 11.2.1 Patient Cooling System Core Raw Materials
 - 11.2.2 Main Manufacturers of Patient Cooling System Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Patient Cooling System Production Mode
- 11.6 Patient Cooling System Procurement Model
- 11.7 Patient Cooling System Industry Sales Model and Sales Channels
 - 11.7.1 Patient Cooling System Sales Model
 - 11.7.2 Patient Cooling System Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Patient Cooling System Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Patient Cooling System Production Value by Region (2021-2026) & (USD Million)

Table 3. World Patient Cooling System Production Value by Region (2027-2032) & (USD Million)

Table 4. World Patient Cooling System Production Value Market Share by Region (2021-2026)

Table 5. World Patient Cooling System Production Value Market Share by Region (2027-2032)

Table 6. World Patient Cooling System Production by Region (2021-2026) & (Units)

Table 7. World Patient Cooling System Production by Region (2027-2032) & (Units)

Table 8. World Patient Cooling System Production Market Share by Region (2021-2026)

Table 9. World Patient Cooling System Production Market Share by Region (2027-2032)

Table 10. World Patient Cooling System Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Patient Cooling System Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Patient Cooling System Major Market Trends

Table 13. World Patient Cooling System Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Patient Cooling System Consumption by Region (2021-2026) & (Units)

Table 15. World Patient Cooling System Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Patient Cooling System Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Patient Cooling System Producers in 2025

Table 18. World Patient Cooling System Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Patient Cooling System Producers in 2025

Table 20. World Patient Cooling System Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Patient Cooling System Company Evaluation Quadrant
Table 22. World Patient Cooling System Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Patient Cooling System Production Site of Key Manufacturer
Table 24. Patient Cooling System Market: Company Product Type Footprint
Table 25. Patient Cooling System Market: Company Product Application Footprint
Table 26. Patient Cooling System Competitive Factors
Table 27. Patient Cooling System New Entrant and Capacity Expansion Plans
Table 28. Patient Cooling System Mergers & Acquisitions Activity
Table 29. United States VS China Patient Cooling System Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Patient Cooling System Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Patient Cooling System Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Patient Cooling System Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Patient Cooling System Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Patient Cooling System Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Patient Cooling System Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Patient Cooling System Production Market Share (2021-2026)
Table 37. China Based Patient Cooling System Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Patient Cooling System Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Patient Cooling System Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Patient Cooling System Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Patient Cooling System Production Market Share (2021-2026)
Table 42. Rest of World Based Patient Cooling System Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Patient Cooling System Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Patient Cooling System Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Patient Cooling System Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Patient Cooling System Production Market Share (2021-2026)

Table 47. World Patient Cooling System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Patient Cooling System Production by Type (2021-2026) & (Units)

Table 49. World Patient Cooling System Production by Type (2027-2032) & (Units)

Table 50. World Patient Cooling System Production Value by Type (2021-2026) & (USD Million)

Table 51. World Patient Cooling System Production Value by Type (2027-2032) & (USD Million)

Table 52. World Patient Cooling System Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Patient Cooling System Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Patient Cooling System Production Value by Cooling Mechanism, (USD Million), 2021 & 2025 & 2032

Table 55. World Patient Cooling System Production by Cooling Mechanism (2021-2026) & (Units)

Table 56. World Patient Cooling System Production by Cooling Mechanism (2027-2032) & (Units)

Table 57. World Patient Cooling System Production Value by Cooling Mechanism (2021-2026) & (USD Million)

Table 58. World Patient Cooling System Production Value by Cooling Mechanism (2027-2032) & (USD Million)

Table 59. World Patient Cooling System Average Price by Cooling Mechanism (2021-2026) & (US\$/Unit)

Table 60. World Patient Cooling System Average Price by Cooling Mechanism (2027-2032) & (US\$/Unit)

Table 61. World Patient Cooling System Production Value by Cooling Site, (USD Million), 2021 & 2025 & 2032

Table 62. World Patient Cooling System Production by Cooling Site (2021-2026) & (Units)

Table 63. World Patient Cooling System Production by Cooling Site (2027-2032) & (Units)

Table 64. World Patient Cooling System Production Value by Cooling Site (2021-2026)

& (USD Million)

Table 65. World Patient Cooling System Production Value by Cooling Site (2027-2032)

& (USD Million)

Table 66. World Patient Cooling System Average Price by Cooling Site (2021-2026) & (US\$/Unit)

Table 67. World Patient Cooling System Average Price by Cooling Site (2027-2032) & (US\$/Unit)

Table 68. World Patient Cooling System Production Value by Temperature Range, (USD Million), 2021 & 2025 & 2032

Table 69. World Patient Cooling System Production by Temperature Range (2021-2026) & (Units)

Table 70. World Patient Cooling System Production by Temperature Range (2027-2032) & (Units)

Table 71. World Patient Cooling System Production Value by Temperature Range (2021-2026) & (USD Million)

Table 72. World Patient Cooling System Production Value by Temperature Range (2027-2032) & (USD Million)

Table 73. World Patient Cooling System Average Price by Temperature Range (2021-2026) & (US\$/Unit)

Table 74. World Patient Cooling System Average Price by Temperature Range (2027-2032) & (US\$/Unit)

Table 75. World Patient Cooling System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Patient Cooling System Production by Application (2021-2026) & (Units)

Table 77. World Patient Cooling System Production by Application (2027-2032) & (Units)

Table 78. World Patient Cooling System Production Value by Application (2021-2026) & (USD Million)

Table 79. World Patient Cooling System Production Value by Application (2027-2032) & (USD Million)

Table 80. World Patient Cooling System Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Patient Cooling System Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. 3M Basic Information, Manufacturing Base and Competitors

Table 83. 3M Major Business

Table 84. 3M Patient Cooling System Product and Services

Table 85. 3M Patient Cooling System Production (Units), Price (US\$/Unit), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. 3M Recent Developments/Updates

Table 87. 3M Competitive Strengths & Weaknesses

Table 88. ZOLL Medical Basic Information, Manufacturing Base and Competitors

Table 89. ZOLL Medical Major Business

Table 90. ZOLL Medical Patient Cooling System Product and Services

Table 91. ZOLL Medical Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. ZOLL Medical Recent Developments/Updates

Table 93. ZOLL Medical Competitive Strengths & Weaknesses

Table 94. ICU Medical Basic Information, Manufacturing Base and Competitors

Table 95. ICU Medical Major Business

Table 96. ICU Medical Patient Cooling System Product and Services

Table 97. ICU Medical Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. ICU Medical Recent Developments/Updates

Table 99. ICU Medical Competitive Strengths & Weaknesses

Table 100. Stryker Basic Information, Manufacturing Base and Competitors

Table 101. Stryker Major Business

Table 102. Stryker Patient Cooling System Product and Services

Table 103. Stryker Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Stryker Recent Developments/Updates

Table 105. Stryker Competitive Strengths & Weaknesses

Table 106. Biegler Basic Information, Manufacturing Base and Competitors

Table 107. Biegler Major Business

Table 108. Biegler Patient Cooling System Product and Services

Table 109. Biegler Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Biegler Recent Developments/Updates

Table 111. Biegler Competitive Strengths & Weaknesses

Table 112. Fanem Basic Information, Manufacturing Base and Competitors

Table 113. Fanem Major Business

Table 114. Fanem Patient Cooling System Product and Services

Table 115. Fanem Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Fanem Recent Developments/Updates

Table 117. Fanem Competitive Strengths & Weaknesses

Table 118. Inspiration Healthcare Basic Information, Manufacturing Base and

Competitors

Table 119. Inspiration Healthcare Major Business

Table 120. Inspiration Healthcare Patient Cooling System Product and Services

Table 121. Inspiration Healthcare Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Inspiration Healthcare Recent Developments/Updates

Table 123. Inspiration Healthcare Competitive Strengths & Weaknesses

Table 124. Gentherm Basic Information, Manufacturing Base and Competitors

Table 125. Gentherm Major Business

Table 126. Gentherm Patient Cooling System Product and Services

Table 127. Gentherm Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Gentherm Recent Developments/Updates

Table 129. Gentherm Competitive Strengths & Weaknesses

Table 130. EM-MED Basic Information, Manufacturing Base and Competitors

Table 131. EM-MED Major Business

Table 132. EM-MED Patient Cooling System Product and Services

Table 133. EM-MED Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. EM-MED Recent Developments/Updates

Table 135. EM-MED Competitive Strengths & Weaknesses

Table 136. ???? Basic Information, Manufacturing Base and Competitors

Table 137. ???? Major Business

Table 138. ???? Patient Cooling System Product and Services

Table 139. ???? Patient Cooling System Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. ???? Recent Developments/Updates

Table 141. ???? Competitive Strengths & Weaknesses

Table 142. Global Key Players of Patient Cooling System Upstream (Raw Materials)

Table 143. Global Patient Cooling System Typical Customers

Table 144. Patient Cooling System Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Patient Cooling System Picture

Figure 2. World Patient Cooling System Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Patient Cooling System Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Patient Cooling System Production (2021-2032) & (Units)

Figure 5. World Patient Cooling System Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Patient Cooling System Production Value Market Share by Region (2021-2032)

Figure 7. World Patient Cooling System Production Market Share by Region (2021-2032)

Figure 8. North America Patient Cooling System Production (2021-2032) & (Units)

Figure 9. Europe Patient Cooling System Production (2021-2032) & (Units)

Figure 10. Asia Patient Cooling System Production (2021-2032) & (Units)

Figure 11. Latin America Patient Cooling System Production (2021-2032) & (Units)

Figure 12. Middle East & Africa Patient Cooling System Production (2021-2032) & (Units)

Figure 13. Patient Cooling System Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Patient Cooling System Consumption (2021-2032) & (Units)

Figure 16. World Patient Cooling System Consumption Market Share by Region (2021-2032)

Figure 17. United States Patient Cooling System Consumption (2021-2032) & (Units)

Figure 18. China Patient Cooling System Consumption (2021-2032) & (Units)

Figure 19. Europe Patient Cooling System Consumption (2021-2032) & (Units)

Figure 20. Japan Patient Cooling System Consumption (2021-2032) & (Units)

Figure 21. South Korea Patient Cooling System Consumption (2021-2032) & (Units)

Figure 22. ASEAN Patient Cooling System Consumption (2021-2032) & (Units)

Figure 23. India Patient Cooling System Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Patient Cooling System by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Patient Cooling System Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Patient Cooling System Markets in 2025

Figure 27. United States VS China: Patient Cooling System Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Patient Cooling System Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Patient Cooling System Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Patient Cooling System Production Market Share 2025

Figure 31. China Based Manufacturers Patient Cooling System Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Patient Cooling System Production Market Share 2025

Figure 33. World Patient Cooling System Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Patient Cooling System Production Value Market Share by Type in 2025

Figure 35. Surface Cooling Systems

Figure 36. Intravascular Cooling Systems

Figure 37. World Patient Cooling System Production Market Share by Type (2021-2032)

Figure 38. World Patient Cooling System Production Value Market Share by Type (2021-2032)

Figure 39. World Patient Cooling System Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Patient Cooling System Production Value by Cooling Mechanism, (USD Million), 2021 & 2025 & 2032

Figure 41. World Patient Cooling System Production Value Market Share by Cooling Mechanism in 2025

Figure 42. Conductive Cooling

Figure 43. Convective Cooling

Figure 44. Evaporative Cooling

Figure 45. Endovascular Heat Exchange

Figure 46. World Patient Cooling System Production Market Share by Cooling Mechanism (2021-2032)

Figure 47. World Patient Cooling System Production Value Market Share by Cooling Mechanism (2021-2032)

Figure 48. World Patient Cooling System Average Price by Cooling Mechanism (2021-2032) & (US\$/Unit)

Figure 49. World Patient Cooling System Production Value by Cooling Site, (USD Million), 2021 & 2025 & 2032

Figure 50. World Patient Cooling System Production Value Market Share by Cooling Site in 2025

Figure 51. Whole-Body Cooling

Figure 52. Regional Cooling

Figure 53. World Patient Cooling System Production Market Share by Cooling Site (2021-2032)

Figure 54. World Patient Cooling System Production Value Market Share by Cooling Site (2021-2032)

Figure 55. World Patient Cooling System Average Price by Cooling Site (2021-2032) & (US\$/Unit)

Figure 56. World Patient Cooling System Production Value by Temperature Range, (USD Million), 2021 & 2025 & 2032

Figure 57. World Patient Cooling System Production Value Market Share by Temperature Range in 2025

Figure 58. Normothermia Maintenance

Figure 59. Mild Hypothermia

Figure 60. Moderate Hypothermia

Figure 61. Deep Hypothermia

Figure 62. World Patient Cooling System Production Market Share by Temperature Range (2021-2032)

Figure 63. World Patient Cooling System Production Value Market Share by Temperature Range (2021-2032)

Figure 64. World Patient Cooling System Average Price by Temperature Range (2021-2032) & (US\$/Unit)

Figure 65. World Patient Cooling System Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World Patient Cooling System Production Value Market Share by Application in 2025

Figure 67. Perioperative Care

Figure 68. Newborn Care

Figure 69. Acute Care

Figure 70. World Patient Cooling System Production Market Share by Application (2021-2032)

Figure 71. World Patient Cooling System Production Value Market Share by Application (2021-2032)

Figure 72. World Patient Cooling System Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Patient Cooling System Industry Chain

Figure 74. Patient Cooling System Procurement Model

Figure 75. Patient Cooling System Sales Model

Figure 76. Patient Cooling System Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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