

Global Passive Radiative Cooling Panels Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Passive Radiative Cooling Panels competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global production of Passive Radiative Cooling Panels reached approximately 220 million square meter, with an average global market price of around USD 2.2 per square metre. Passive Radiative Cooling Panels are advanced surfaces or structures designed to reduce temperatures by emitting thermal radiation through the atmospheric transparency window (typically 8-13 micrometers), allowing heat to escape directly into outer space without relying on electricity or active cooling systems. These panels are engineered with selective optical properties: they strongly reflect incoming solar radiation to minimize heat absorption while maximizing emissivity in the infrared range to enhance radiative heat loss. By passively achieving sub-ambient cooling, they offer sustainable solutions for applications such as building envelopes, energy-efficient HVAC systems, electronics cooling, and even food preservation, contributing to reduced energy consumption and lower greenhouse gas emissions.

The global Passive Radiative Cooling Panels market size was estimated at USD 485.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 18.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Passive Radiative Cooling Panels market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Passive Radiative Cooling Panels market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Passive Radiative Cooling Panels market.

Global Passive Radiative Cooling Panels Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

SkyCool Systems
Spacecool
i2Cool
ChillSkyn
Radi-Cool
SVG Optoelectronics

3M Company
Azure Era
SRI International
Advanced Cooling Technologies
AssetCool
LuxWall

Market Segmentation (by Type)

Selective Emitters
Broadband Emitters
Metamaterial-based

Market Segmentation (by Application)

Construction
Industrial
Refrigeration
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance

Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Passive Radiative Cooling Panels Market
Overview of the regional outlook of the Passive Radiative Cooling Panels Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Passive Radiative Cooling Panels Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application,

covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Passive Radiative Cooling Panels, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Passive Radiative Cooling Panels
- 1.2 Key Market Segments
 - 1.2.1 Passive Radiative Cooling Panels Segment by Type
 - 1.2.2 Passive Radiative Cooling Panels Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 PASSIVE RADIATIVE COOLING PANELS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Passive Radiative Cooling Panels Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Passive Radiative Cooling Panels Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 PASSIVE RADIATIVE COOLING PANELS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Passive Radiative Cooling Panels Product Life Cycle
- 3.3 Global Passive Radiative Cooling Panels Sales by Manufacturers (2020-2025)
- 3.4 Global Passive Radiative Cooling Panels Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Passive Radiative Cooling Panels Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Passive Radiative Cooling Panels Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Passive Radiative Cooling Panels Market Competitive Situation and Trends
 - 3.8.1 Passive Radiative Cooling Panels Market Concentration Rate

3.8.2 Global 5 and 10 Largest Passive Radiative Cooling Panels Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 PASSIVE RADIATIVE COOLING PANELS INDUSTRY CHAIN ANALYSIS

4.1 Passive Radiative Cooling Panels Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PASSIVE RADIATIVE COOLING PANELS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Passive Radiative Cooling Panels Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Passive Radiative Cooling Panels Market

5.7 ESG Ratings of Leading Companies

6 PASSIVE RADIATIVE COOLING PANELS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Passive Radiative Cooling Panels Sales Market Share by Type (2020-2025)

6.3 Global Passive Radiative Cooling Panels Market Size by Type (2020-2025)

6.4 Global Passive Radiative Cooling Panels Price by Type (2020-2025)

7 PASSIVE RADIATIVE COOLING PANELS MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Passive Radiative Cooling Panels Market Sales by Application (2020-2025)

7.3 Global Passive Radiative Cooling Panels Market Size (M USD) by Application (2020-2025)

7.4 Global Passive Radiative Cooling Panels Sales Growth Rate by Application (2020-2025)

8 PASSIVE RADIATIVE COOLING PANELS MARKET SALES BY REGION

8.1 Global Passive Radiative Cooling Panels Sales by Region

8.1.1 Global Passive Radiative Cooling Panels Sales by Region

8.1.2 Global Passive Radiative Cooling Panels Sales Market Share by Region

8.2 Global Passive Radiative Cooling Panels Market Size by Region

8.2.1 Global Passive Radiative Cooling Panels Market Size by Region

8.2.2 Global Passive Radiative Cooling Panels Market Size by Region

8.3 North America

8.3.1 North America Passive Radiative Cooling Panels Sales by Country

8.3.2 North America Passive Radiative Cooling Panels Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Passive Radiative Cooling Panels Sales by Country

8.4.2 Europe Passive Radiative Cooling Panels Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Passive Radiative Cooling Panels Sales by Region

8.5.2 Asia Pacific Passive Radiative Cooling Panels Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Passive Radiative Cooling Panels Sales by Country
 - 8.6.2 South America Passive Radiative Cooling Panels Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Passive Radiative Cooling Panels Sales by Region
 - 8.7.2 Middle East and Africa Passive Radiative Cooling Panels Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 PASSIVE RADIATIVE COOLING PANELS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Passive Radiative Cooling Panels by Region(2020-2025)
- 9.2 Global Passive Radiative Cooling Panels Revenue Market Share by Region (2020-2025)
- 9.3 Global Passive Radiative Cooling Panels Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Passive Radiative Cooling Panels Production
 - 9.4.1 North America Passive Radiative Cooling Panels Production Growth Rate (2020-2025)
 - 9.4.2 North America Passive Radiative Cooling Panels Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Passive Radiative Cooling Panels Production
 - 9.5.1 Europe Passive Radiative Cooling Panels Production Growth Rate (2020-2025)
 - 9.5.2 Europe Passive Radiative Cooling Panels Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Passive Radiative Cooling Panels Production (2020-2025)
 - 9.6.1 Japan Passive Radiative Cooling Panels Production Growth Rate (2020-2025)
 - 9.6.2 Japan Passive Radiative Cooling Panels Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Passive Radiative Cooling Panels Production (2020-2025)

- 9.7.1 China Passive Radiative Cooling Panels Production Growth Rate (2020-2025)
- 9.7.2 China Passive Radiative Cooling Panels Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 SkyCool Systems

- 10.1.1 SkyCool Systems Basic Information
- 10.1.2 SkyCool Systems Passive Radiative Cooling Panels Product Overview
- 10.1.3 SkyCool Systems Passive Radiative Cooling Panels Product Market Performance
- 10.1.4 SkyCool Systems Business Overview
- 10.1.5 SkyCool Systems SWOT Analysis
- 10.1.6 SkyCool Systems Recent Developments

10.2 Spacecool

- 10.2.1 Spacecool Basic Information
- 10.2.2 Spacecool Passive Radiative Cooling Panels Product Overview
- 10.2.3 Spacecool Passive Radiative Cooling Panels Product Market Performance
- 10.2.4 Spacecool Business Overview
- 10.2.5 Spacecool SWOT Analysis
- 10.2.6 Spacecool Recent Developments

10.3 i2Cool

- 10.3.1 i2Cool Basic Information
- 10.3.2 i2Cool Passive Radiative Cooling Panels Product Overview
- 10.3.3 i2Cool Passive Radiative Cooling Panels Product Market Performance
- 10.3.4 i2Cool Business Overview
- 10.3.5 i2Cool SWOT Analysis
- 10.3.6 i2Cool Recent Developments

10.4 ChillSkyn

- 10.4.1 ChillSkyn Basic Information
- 10.4.2 ChillSkyn Passive Radiative Cooling Panels Product Overview
- 10.4.3 ChillSkyn Passive Radiative Cooling Panels Product Market Performance
- 10.4.4 ChillSkyn Business Overview
- 10.4.5 ChillSkyn Recent Developments

10.5 Radi-Cool

- 10.5.1 Radi-Cool Basic Information
- 10.5.2 Radi-Cool Passive Radiative Cooling Panels Product Overview
- 10.5.3 Radi-Cool Passive Radiative Cooling Panels Product Market Performance
- 10.5.4 Radi-Cool Business Overview

- 10.5.5 Radi-Cool Recent Developments
- 10.6 SVG Optoelectronics
 - 10.6.1 SVG Optoelectronics Basic Information
 - 10.6.2 SVG Optoelectronics Passive Radiative Cooling Panels Product Overview
 - 10.6.3 SVG Optoelectronics Passive Radiative Cooling Panels Product Market Performance
 - 10.6.4 SVG Optoelectronics Business Overview
 - 10.6.5 SVG Optoelectronics Recent Developments
- 10.7 3M Company
 - 10.7.1 3M Company Basic Information
 - 10.7.2 3M Company Passive Radiative Cooling Panels Product Overview
 - 10.7.3 3M Company Passive Radiative Cooling Panels Product Market Performance
 - 10.7.4 3M Company Business Overview
 - 10.7.5 3M Company Recent Developments
- 10.8 Azure Era
 - 10.8.1 Azure Era Basic Information
 - 10.8.2 Azure Era Passive Radiative Cooling Panels Product Overview
 - 10.8.3 Azure Era Passive Radiative Cooling Panels Product Market Performance
 - 10.8.4 Azure Era Business Overview
 - 10.8.5 Azure Era Recent Developments
- 10.9 SRI International
 - 10.9.1 SRI International Basic Information
 - 10.9.2 SRI International Passive Radiative Cooling Panels Product Overview
 - 10.9.3 SRI International Passive Radiative Cooling Panels Product Market Performance
 - 10.9.4 SRI International Business Overview
 - 10.9.5 SRI International Recent Developments
- 10.10 Advanced Cooling Technologies
 - 10.10.1 Advanced Cooling Technologies Basic Information
 - 10.10.2 Advanced Cooling Technologies Passive Radiative Cooling Panels Product Overview
 - 10.10.3 Advanced Cooling Technologies Passive Radiative Cooling Panels Product Market Performance
 - 10.10.4 Advanced Cooling Technologies Business Overview
 - 10.10.5 Advanced Cooling Technologies Recent Developments
- 10.11 AssetCool
 - 10.11.1 AssetCool Basic Information
 - 10.11.2 AssetCool Passive Radiative Cooling Panels Product Overview
 - 10.11.3 AssetCool Passive Radiative Cooling Panels Product Market Performance

- 10.11.4 AssetCool Business Overview
- 10.11.5 AssetCool Recent Developments
- 10.12 LuxWall
 - 10.12.1 LuxWall Basic Information
 - 10.12.2 LuxWall Passive Radiative Cooling Panels Product Overview
 - 10.12.3 LuxWall Passive Radiative Cooling Panels Product Market Performance
 - 10.12.4 LuxWall Business Overview
 - 10.12.5 LuxWall Recent Developments

11 PASSIVE RADIATIVE COOLING PANELS MARKET FORECAST BY REGION

- 11.1 Global Passive Radiative Cooling Panels Market Size Forecast
- 11.2 Global Passive Radiative Cooling Panels Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Passive Radiative Cooling Panels Market Size Forecast by Country
 - 11.2.3 Asia Pacific Passive Radiative Cooling Panels Market Size Forecast by Region
 - 11.2.4 South America Passive Radiative Cooling Panels Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Passive Radiative Cooling Panels by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Passive Radiative Cooling Panels Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Passive Radiative Cooling Panels by Type (2026-2035)
 - 12.1.2 Global Passive Radiative Cooling Panels Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Passive Radiative Cooling Panels by Type (2026-2035)
- 12.2 Global Passive Radiative Cooling Panels Market Forecast by Application (2026-2035)
 - 12.2.1 Global Passive Radiative Cooling Panels Sales (K MT) Forecast by Application
 - 12.2.2 Global Passive Radiative Cooling Panels Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Passive Radiative Cooling Panels Market Size by Type (M USD)
- Table 4. Global Passive Radiative Cooling Panels Market Size by Application
- Table 5. Passive Radiative Cooling Panels Market Size Comparison by Region (M USD)
- Table 6. Global Passive Radiative Cooling Panels Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global Passive Radiative Cooling Panels Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Passive Radiative Cooling Panels Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Passive Radiative Cooling Panels Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Passive Radiative Cooling Panels as of 2025)
- Table 11. Global Market Passive Radiative Cooling Panels Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Passive Radiative Cooling Panels Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Passive Radiative Cooling Panels Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Passive Radiative Cooling Panels Sales by Type (K MT)

Table 27. Global Passive Radiative Cooling Panels Market Size by Type (M USD)

Table 28. Global Passive Radiative Cooling Panels Sales (K MT) by Type (2020-2025)

Table 29. Global Passive Radiative Cooling Panels Sales Market Share by Type (2020-2025)

Table 30. Global Passive Radiative Cooling Panels Market Size (M USD) by Type (2020-2025)

Table 31. Global Passive Radiative Cooling Panels Market Share by Type (2020-2025)

Table 32. Global Passive Radiative Cooling Panels Price (USD/KG) by Type (2020-2025)

Table 33. Global Passive Radiative Cooling Panels Sales (K MT) by Application

Table 34. Global Passive Radiative Cooling Panels Market Size by Application

Table 35. Global Passive Radiative Cooling Panels Sales by Application (2020-2025) & (K MT)

Table 36. Global Passive Radiative Cooling Panels Sales Market Share by Application (2020-2025)

Table 37. Global Passive Radiative Cooling Panels Market Size by Application (2020-2025) & (M USD)

Table 38. Global Passive Radiative Cooling Panels Market Share by Application (2020-2025)

Table 39. Global Passive Radiative Cooling Panels Sales Growth Rate by Application (2020-2025)

Table 40. Global Passive Radiative Cooling Panels Sales by Region (2020-2025) & (K MT)

Table 41. Global Passive Radiative Cooling Panels Sales Market Share by Region (2020-2025)

Table 42. Global Passive Radiative Cooling Panels Market Size by Region (2020-2025) & (M USD)

Table 43. Global Passive Radiative Cooling Panels Market Size by Region (2020-2025)

Table 44. North America Passive Radiative Cooling Panels Sales by Country (2020-2025) & (K MT)

Table 45. North America Passive Radiative Cooling Panels Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Passive Radiative Cooling Panels Sales by Country (2020-2025) & (K MT)

Table 47. Europe Passive Radiative Cooling Panels Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Passive Radiative Cooling Panels Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific Passive Radiative Cooling Panels Market Size by Region

(2020-2025) & (M USD)

Table 50. South America Passive Radiative Cooling Panels Sales by Country

(2020-2025) & (K MT)

Table 51. South America Passive Radiative Cooling Panels Market Size by Country

(2020-2025) & (M USD)

Table 52. Middle East and Africa Passive Radiative Cooling Panels Sales by Region

(2020-2025) & (K MT)

Table 53. Middle East and Africa Passive Radiative Cooling Panels Market Size by

Region (2020-2025) & (M USD)

Table 54. Global Passive Radiative Cooling Panels Production (K MT) by

Region(2020-2025)

Table 55. Global Passive Radiative Cooling Panels Revenue (US\$ Million) by Region

(2020-2025)

Table 56. Global Passive Radiative Cooling Panels Revenue Market Share by Region

(2020-2025)

Table 57. Global Passive Radiative Cooling Panels Production (K MT), Revenue (US\$

Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Passive Radiative Cooling Panels Production (K MT),

Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Passive Radiative Cooling Panels Production (K MT), Revenue (US\$

Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Passive Radiative Cooling Panels Production (K MT), Revenue (US\$

Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Passive Radiative Cooling Panels Production (K MT), Revenue (US\$

Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. SkyCool Systems Basic Information

Table 63. SkyCool Systems Passive Radiative Cooling Panels Product Overview

Table 64. SkyCool Systems Passive Radiative Cooling Panels Sales (K MT), Revenue

(M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. SkyCool Systems Business Overview

Table 66. SkyCool Systems SWOT Analysis

Table 67. SkyCool Systems Recent Developments

Table 68. Spacecool Basic Information

Table 69. Spacecool Passive Radiative Cooling Panels Product Overview

Table 70. Spacecool Passive Radiative Cooling Panels Sales (K MT), Revenue (M

USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Spacecool Business Overview

Table 72. Spacecool SWOT Analysis

Table 73. Spacecool Recent Developments

- Table 74. i2Cool Basic Information
- Table 75. i2Cool Passive Radiative Cooling Panels Product Overview
- Table 76. i2Cool Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 77. i2Cool Business Overview
- Table 78. i2Cool SWOT Analysis
- Table 79. i2Cool Recent Developments
- Table 80. ChillSkyn Basic Information
- Table 81. ChillSkyn Passive Radiative Cooling Panels Product Overview
- Table 82. ChillSkyn Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 83. ChillSkyn Business Overview
- Table 84. ChillSkyn Recent Developments
- Table 85. Radi-Cool Basic Information
- Table 86. Radi-Cool Passive Radiative Cooling Panels Product Overview
- Table 87. Radi-Cool Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 88. Radi-Cool Business Overview
- Table 89. Radi-Cool Recent Developments
- Table 90. SVG Optoelectronics Basic Information
- Table 91. SVG Optoelectronics Passive Radiative Cooling Panels Product Overview
- Table 92. SVG Optoelectronics Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 93. SVG Optoelectronics Business Overview
- Table 94. SVG Optoelectronics Recent Developments
- Table 95. 3M Company Basic Information
- Table 96. 3M Company Passive Radiative Cooling Panels Product Overview
- Table 97. 3M Company Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. 3M Company Business Overview
- Table 99. 3M Company Recent Developments
- Table 100. Azure Era Basic Information
- Table 101. Azure Era Passive Radiative Cooling Panels Product Overview
- Table 102. Azure Era Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 103. Azure Era Business Overview
- Table 104. Azure Era Recent Developments
- Table 105. SRI International Basic Information
- Table 106. SRI International Passive Radiative Cooling Panels Product Overview

- Table 107. SRI International Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 108. SRI International Business Overview
- Table 109. SRI International Recent Developments
- Table 110. Advanced Cooling Technologies Basic Information
- Table 111. Advanced Cooling Technologies Passive Radiative Cooling Panels Product Overview
- Table 112. Advanced Cooling Technologies Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 113. Advanced Cooling Technologies Business Overview
- Table 114. Advanced Cooling Technologies Recent Developments
- Table 115. AssetCool Basic Information
- Table 116. AssetCool Passive Radiative Cooling Panels Product Overview
- Table 117. AssetCool Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 118. AssetCool Business Overview
- Table 119. AssetCool Recent Developments
- Table 120. LuxWall Basic Information
- Table 121. LuxWall Passive Radiative Cooling Panels Product Overview
- Table 122. LuxWall Passive Radiative Cooling Panels Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 123. LuxWall Business Overview
- Table 124. LuxWall Recent Developments
- Table 125. Global Passive Radiative Cooling Panels Sales Forecast by Region (2026-2035) & (K MT)
- Table 126. Global Passive Radiative Cooling Panels Market Size Forecast by Region (2026-2035) & (M USD)
- Table 127. North America Passive Radiative Cooling Panels Sales Forecast by Country (2026-2035) & (K MT)
- Table 128. North America Passive Radiative Cooling Panels Market Size Forecast by Country (2026-2035) & (M USD)
- Table 129. Europe Passive Radiative Cooling Panels Sales Forecast by Country (2026-2035) & (K MT)
- Table 130. Europe Passive Radiative Cooling Panels Market Size Forecast by Country (2026-2035) & (M USD)
- Table 131. Asia Pacific Passive Radiative Cooling Panels Sales Forecast by Region (2026-2035) & (K MT)
- Table 132. Asia Pacific Passive Radiative Cooling Panels Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Passive Radiative Cooling Panels Sales Forecast by Country (2026-2035) & (K MT)

Table 134. South America Passive Radiative Cooling Panels Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Passive Radiative Cooling Panels Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Passive Radiative Cooling Panels Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Passive Radiative Cooling Panels Sales Forecast by Type (2026-2035) & (K MT)

Table 138. Global Passive Radiative Cooling Panels Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Passive Radiative Cooling Panels Price Forecast by Type (2026-2035) & (USD/KG)

Table 140. Global Passive Radiative Cooling Panels Sales (K MT) Forecast by Application (2026-2035)

Table 141. Global Passive Radiative Cooling Panels Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Passive Radiative Cooling Panels
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Passive Radiative Cooling Panels Market Size (M USD), 2025-2035
- Figure 5. Global Passive Radiative Cooling Panels Market Size (M USD) (2020-2035)
- Figure 6. Global Passive Radiative Cooling Panels Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Passive Radiative Cooling Panels Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Passive Radiative Cooling Panels Product Life Cycle
- Figure 13. Passive Radiative Cooling Panels Sales Share by Manufacturers in 2025
- Figure 14. Global Passive Radiative Cooling Panels Revenue Share by Manufacturers in 2025
- Figure 15. Passive Radiative Cooling Panels Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Passive Radiative Cooling Panels Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Passive Radiative Cooling Panels Revenue in 2025
- Figure 18. Industry Chain Map of Passive Radiative Cooling Panels
- Figure 19. Global Passive Radiative Cooling Panels Market PEST Analysis
- Figure 20. Global Passive Radiative Cooling Panels Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Passive Radiative Cooling Panels Market Share by Type
- Figure 27. Sales Market Share of Passive Radiative Cooling Panels by Type (2020-2025)
- Figure 28. Sales Market Share of Passive Radiative Cooling Panels by Type in 2025
- Figure 29. Market Share of Passive Radiative Cooling Panels by Type (2020-2025)

- Figure 30. Market Share of Passive Radiative Cooling Panels by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Passive Radiative Cooling Panels Market Share by Application
- Figure 33. Global Passive Radiative Cooling Panels Sales Market Share by Application (2020-2025)
- Figure 34. Global Passive Radiative Cooling Panels Sales Market Share by Application in 2025
- Figure 35. Global Passive Radiative Cooling Panels Market Share by Application (2020-2025)
- Figure 36. Global Passive Radiative Cooling Panels Market Share by Application in 2025
- Figure 37. Global Passive Radiative Cooling Panels Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Passive Radiative Cooling Panels Sales Market Share by Region (2020-2025)
- Figure 39. Global Passive Radiative Cooling Panels Market Size by Region (2020-2025)
- Figure 40. North America Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Passive Radiative Cooling Panels Sales Market Share by Country in 2024
- Figure 43. North America Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Passive Radiative Cooling Panels Market Size by Country in 2024
- Figure 45. U.S. Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Passive Radiative Cooling Panels Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Passive Radiative Cooling Panels Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Passive Radiative Cooling Panels Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Passive Radiative Cooling Panels Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Passive Radiative Cooling Panels Sales and Growth Rate

(2020-2025) & (K MT)

Figure 52. Europe Passive Radiative Cooling Panels Sales Market Share by Country in 2024

Figure 53. Europe Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Passive Radiative Cooling Panels Market Size by Country in 2024

Figure 55. Germany Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Passive Radiative Cooling Panels Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Passive Radiative Cooling Panels Sales Market Share by Region in 2024

Figure 67. Asia Pacific Passive Radiative Cooling Panels Market Size by Region in 2024

Figure 68. China Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Passive Radiative Cooling Panels Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 72. South Korea Passive Radiative Cooling Panels Sales and Growth Rate

(2020-2025) & (K MT)

Figure 73. South Korea Passive Radiative Cooling Panels Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 74. India Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025)
& (K MT)

Figure 75. India Passive Radiative Cooling Panels Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 76. Southeast Asia Passive Radiative Cooling Panels Sales and Growth Rate

(2020-2025) & (K MT)

Figure 77. Southeast Asia Passive Radiative Cooling Panels Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 78. South America Passive Radiative Cooling Panels Sales and Growth Rate (K
MT)

Figure 79. South America Passive Radiative Cooling Panels Sales Market Share by
Country in 2024

Figure 80. South America Passive Radiative Cooling Panels Market Size and Growth

Rate (M USD)

Figure 81. South America Passive Radiative Cooling Panels Market Size by Country in
2024

Figure 82. Brazil Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025)
& (K MT)

Figure 83. Brazil Passive Radiative Cooling Panels Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 84. Argentina Passive Radiative Cooling Panels Sales and Growth Rate

(2020-2025) & (K MT)

Figure 85. Argentina Passive Radiative Cooling Panels Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 86. Columbia Passive Radiative Cooling Panels Sales and Growth Rate

(2020-2025) & (K MT)

Figure 87. Columbia Passive Radiative Cooling Panels Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 88. Middle East and Africa Passive Radiative Cooling Panels Sales and Growth
Rate (K MT)

Figure 89. Middle East and Africa Passive Radiative Cooling Panels Sales Market
Share by Region in 2024

Figure 90. Middle East and Africa Passive Radiative Cooling Panels Market Size and
Growth Rate (M USD)

Figure 91. Middle East and Africa Passive Radiative Cooling Panels Market Size by Region in 2024

Figure 92. Saudi Arabia Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Passive Radiative Cooling Panels Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Passive Radiative Cooling Panels Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Passive Radiative Cooling Panels Production Market Share by Region (2020-2025)

Figure 103. North America Passive Radiative Cooling Panels Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Passive Radiative Cooling Panels Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Passive Radiative Cooling Panels Production (K MT) Growth Rate (2020-2025)

Figure 106. China Passive Radiative Cooling Panels Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Passive Radiative Cooling Panels Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Passive Radiative Cooling Panels Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Passive Radiative Cooling Panels Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Passive Radiative Cooling Panels Market Share Forecast by Type

(2026-2035)

Figure 111. Global Passive Radiative Cooling Panels Sales Forecast by Application

(2026-2035)

Figure 112. Global Passive Radiative Cooling Panels Market Share Forecast by Application (2026-2035)

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