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Global Passive Daytime Radiative Cooling (PDRC) Market Growth 2026-2032

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Abstracts

The global Passive Daytime Radiative Cooling (PDRC) market size is predicted to grow from US$ 49.67 million in 2025 to US$ 381 million in 2032; it is expected to grow at a CAGR of 27.8% from 2026 to 2032.

Passive Daytime Radiative Cooling (PDRC) are engineered functional materials designed to reduce surface heat gain and dissipate thermal energy to the cold sky without electricity-driven refrigeration. Their core optical function is to combine high solar reflectance, generally across the approximately 0.3–2.5 ?m solar spectrum, with strong thermal emissivity in the atmospheric transparency window, particularly around 8–13 ?m, allowing absorbed or internally generated heat to be released through long-wave infrared radiation. The market covered by this study focuses on commercially applicable Passive Daytime Radiative Cooling (PDRC) delivered as coatings and paints, membranes, films, sheets and other engineered material forms. Products can also be differentiated by solar reflectivity and visual appearance, including white, colored and transparent solutions. Major application fields include construction, logistics and warehousing, transportation equipment, energy and power facilities and other heat-management scenarios where reducing surface temperature, cooling-energy consumption or thermal stress creates measurable operational value.

Key Findings

Coating and Paint revenue increased from US$0.63 million in 2021 to US$23.57 million in 2025

Reflectivity Greater Than 96% is the key technology-upgrade segment with a 2026–2032 CAGR of approximately 45.05%

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White products generated US$37.88 million in 2025 and remain the dominant color category

Logistics and Warehousing is projected to reach US$147.94 million by 2032 and become the largest application

The top five manufacturers accounted for approximately 72.00% of global Passive Daytime Radiative Cooling (PDRC) production value in 2025

Market Trends

Passive Daytime Radiative Cooling (PDRC) are moving from proof-of-concept optical structures toward scalable, application-ready material platforms. The most visible shift is the expansion from reflective films into sprayable or roll-applied coatings, industrial membranes, transparent films, functional powders and integrated surface systems. Product development is also moving beyond maximum cooling performance toward durability, weather resistance, adhesion, corrosion protection, self-cleaning properties, flame performance and compatibility with conventional manufacturing or construction processes. At the same time, the historical dominance of white reflective surfaces is gradually being complemented by colored and transparent products that address architectural aesthetics, vehicle glazing, glass fa?ades and optoelectronic applications. Commercial portfolios already show this transition: i2Cool offers coatings, films, membranes, powders, textiles and corrosion-resistant cooling coatings; SPACECOOL has expanded from films into tarpaulins and architectural membrane materials; while large coating companies are integrating radiative cooling into broader building and industrial coating systems.

Market Dynamics

Drivers

The principal market driver is the growing need to control heat loads without proportionally increasing electricity consumption. Passive radiative cooling can directly reduce solar heat gain and release thermal energy through the atmospheric window, giving the technology potential across buildings, warehouses, power equipment, photovoltaic systems and transportation assets. The technology is particularly attractive for large exposed surfaces, where roofs, storage tanks, container surfaces, equipment enclosures and other exterior structures can be converted into passive heat-rejection

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interfaces without adding compressors or refrigerant circuits. Retrofitting is another important driver because coatings and flexible films can be applied to existing assets with relatively limited structural modification. Increasing emphasis on building energy efficiency, low-carbon infrastructure, cold-chain stability and thermal reliability of outdoor electrical equipment is therefore expanding the addressable application base.

Restraints

Commercial adoption remains constrained by the gap between laboratory optical performance and long-term field performance. High solar reflectance and high mid-infrared emissivity must be maintained after ultraviolet exposure, surface contamination, moisture, temperature cycling, chemical corrosion and mechanical wear. Coating-type products also face process sensitivity: porous radiative cooling coatings can experience significant reflectance deterioration when formation or drying conditions are poorly controlled, particularly under unfavorable humidity. Cost competitiveness is another constraint because sophisticated optical structures, high-purity functional fillers, multilayer films and specialized application processes must compete with conventional reflective coatings, thermal insulation and active cooling solutions. For many customers, purchasing decisions therefore depend not only on initial cooling performance but also on service life, maintenance requirements, installation cost and verified energy savings over the asset lifecycle.

Opportunities

The largest opportunities are emerging where radiative cooling can be integrated into existing material systems rather than installed as a standalone cooling device. Coatings offer particularly strong scalability because they can address complex geometries, retrofit roofs, warehouses, tanks, electrical cabinets and industrial structures using established painting processes. Transparent radiative cooling is opening additional opportunities in windows, glass fa?ades, greenhouses, photovoltaics and optoelectronic equipment, while colored products can penetrate applications where traditional white or metallic surfaces are unsuitable. OEM-oriented powders and masterbatches further expand the opportunity by embedding radiative cooling functions into coatings, textiles, plastics and other manufactured products. Multifunctional systems combining cooling with corrosion protection, weatherability, waterproofing or self-cleaning functionality can also improve lifecycle economics and reduce the need for separate protective layers.

Challenges

The industry still lacks complete harmonization in how cooling performance is measured

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and compared across climates, substrates and operating conditions. Solar reflectance, atmospheric-window emissivity, net cooling power and surface temperature reduction can vary materially with humidity, cloud cover, wind, substrate conductivity, installation configuration and surface cleanliness, making simple laboratory specifications insufficient for some end users. Long-term durability is therefore becoming as important as peak optical performance. Colored and transparent products introduce an additional engineering trade-off because visible-light appearance or transmission must be balanced against solar heat rejection and infrared emission. As commercialization broadens, manufacturers will also need more application-specific test protocols, engineering design standards, fire and weathering certifications and repeatable field validation. The emergence of application standards for radiative cooling materials in sectors such as grain storage indicates that standardization is beginning, but broader cross-industry harmonization remains necessary.

Industry Chain Analysis

The upstream segment of the Passive Daytime Radiative Cooling (PDRC) industry primarily consists of polymer resins, inorganic functional powders, pigments and fillers, ceramic or dielectric particles, PET and other film substrates, metal substrates, adhesives, solvents, additives and specialty optical materials. Midstream manufacturers create the core value through optical-spectrum design, micro- and nanoscale structural engineering, formulation development, dispersion and compounding, coating preparation, roll-to-roll film processing, multilayer lamination and surface treatment. Competitive differentiation increasingly depends on the ability to simultaneously achieve high solar reflectance, strong 8–13 ?m thermal emissivity, durability and scalable manufacturing. Downstream value is created through product integration, installation and energy-saving performance in construction, logistics and warehousing, transportation, energy facilities and other thermal-management applications. As the industry matures, value capture is expected to shift increasingly from isolated optical-material performance toward complete material systems that combine cooling efficiency, application convenience, durability and lifecycle economics.

Segment Insights

By product type, Coating and Paint is expected to be the fastest-growing segment. Revenue increased from US$0.63 million in 2021 to US$23.57 million in 2025 and is projected to reach US$214.41 million by 2032, representing a 2026–2032 CAGR of approximately 31.75%. The segment benefits from relatively high retrofit flexibility, compatibility with irregular surfaces and the ability to use conventional spray, brush and

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roll application processes. Membrane, Film and Sheet products nevertheless remain strategically important because controlled factory manufacturing can provide stable optical structures, rapid installation and integration with roofs, fa?ades, equipment enclosures and flexible structures. Commercial products from multiple suppliers confirm that coatings and films are developing in parallel rather than one format replacing the other.

By reflectivity, Reflectivity Greater Than 96% represents the most important technology-upgrade direction. Segment revenue increased from US$0.07 million in 2021 to US$5.81 million in 2025 and is projected to reach US$109.90 million by 2032, with a 2026–2032 CAGR of approximately 45.05%. Higher solar reflectivity directly reduces absorbed solar heat, but manufacturers must simultaneously preserve infrared emissivity, durability and manufacturability. By color, White remains the dominant revenue base, increasing from US$2.20 million in 2021 to US$37.88 million in 2025 and projected to reach US$251.12 million by 2032. Colored and transparent solutions remain smaller but represent important technology opportunities because they can expand the market into aesthetic fa?ades, glazing, automotive surfaces and other applications where conventional white cooling materials face design limitations.

Downstream Market Opportunities

Logistics and Warehousing is expected to become the largest downstream application by 2032, reaching US$147.94 million compared with US$82.84 million for the Construction Industry. Warehouses, grain-storage facilities, cold-chain assets and logistics equipment typically have large sun-exposed surfaces and strong sensitivity to internal temperature, creating favorable economics for passive heat rejection. Radiative cooling materials can potentially reduce heat penetration into storage spaces, support temperature stability and lower the operating burden on mechanical cooling systems without substantially altering the underlying asset structure. Construction will remain a major market because building roofs and exterior walls provide large deployment areas and retrofit opportunities.

Energy and Power Facilities represent another strategically important growth direction. Outdoor power cabinets, communication equipment, battery energy-storage systems and photovoltaic installations increasingly require reliable thermal management under high solar exposure. Transportation equipment also offers opportunities in vehicle roofs, glazing, refrigerated transport and other heat-sensitive surfaces. The product portfolio of leading suppliers is already expanding toward power and telecom, photovoltaic, logistics, automotive and industrial applications, indicating that market demand is

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shifting from individual demonstration projects toward industry-specific material solutions.

Regional Insights

Commercialization is currently characterized by several distinct regional development paths rather than a uniform global market structure. China has developed a relatively dense ecosystem of specialized radiative cooling material companies and established coatings manufacturers, covering films, coatings, textiles and optical surface materials. Companies such as Radi-Cool, MG Energy, i2Cool and Azure Era have moved beyond laboratory development into commercial product portfolios and application projects, while established coatings groups and construction-material companies are also entering the sector. Japan has built a visible commercial position around high-performance radiative cooling films and architectural membrane applications, with SPACECOOL extending the technology into films, tarpaulins and structural membrane products.

North America remains an important technology-commercialization region, particularly for radiative cooling films, roofs and heat-rejection panels, while Europe is increasingly integrating the technology into established architectural and industrial coating platforms. The regional opportunity will depend not only on climatic cooling demand but also on construction practices, retrofit economics, local coating and film supply chains, energy prices and certification requirements. In emerging markets with high solar exposure, logistics facilities, industrial buildings and power infrastructure may provide an efficient route to commercialization because deployment can be concentrated on large, standardized exterior surfaces.

Competitive Landscape Analysis

The competitive landscape remains relatively concentrated. In 2025, the top five manufacturers—Radi-Cool, MG Energy, i2Cool, SPACE COOL and Azure Era—accounted for approximately 72.00% of global Passive Daytime Radiative Cooling (PDRC) production value. Early market leadership is primarily held by specialized materials companies that combine proprietary optical design with dedicated cooling-film or coating platforms. Product breadth is becoming an important competitive differentiator: MG Energy has established film, coating and fiber-based radiative cooling product lines, while i2Cool and Azure Era have expanded into multiple forms and application-specific solutions. Manufacturing scale and field deployment capability are becoming increasingly important as customers move from experimental projects toward

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repeatable commercial installations.

Competition is also broadening as established coating and construction-material companies enter the sector. AkzoNobel has introduced a building coating system incorporating a radiative cooling topcoat, Nippon Paint continues development of radiative cooling coatings within its industrial coating portfolio, SKSHU has commercialized radiative cooling coating products, and CSCEC has developed self-cleaning passive radiative cooling coatings for multiple infrastructure applications. Their participation increases competitive pressure on specialized suppliers in channels, large-project access, formulation engineering and integrated system delivery. Future differentiation is therefore likely to depend less on a single laboratory reflectivity value and more on combined performance across cooling efficiency, durability, cost, manufacturing consistency, certification, installation capability and application-specific engineering.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Passive Daytime Radiative Cooling (PDRC) Industry Forecast” looks at past sales and reviews total world Passive Daytime Radiative Cooling (PDRC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Passive Daytime Radiative Cooling (PDRC) sales for 2026 through 2032. With Passive Daytime Radiative Cooling (PDRC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Passive Daytime Radiative Cooling (PDRC) industry.

This Insight Report provides a comprehensive analysis of the global Passive Daytime Radiative Cooling (PDRC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Passive Daytime Radiative Cooling (PDRC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Passive Daytime Radiative Cooling (PDRC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Passive Daytime Radiative Cooling (PDRC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of

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bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Passive Daytime Radiative Cooling (PDRC).

This report presents a comprehensive overview, market shares, and growth opportunities of Passive Daytime Radiative Cooling (PDRC) market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Coating and Paint

Membrane, Film and Sheet

Others

Segmentation by Reflectivity:

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

Segmentation by Color:

White

Colored

Transparent

Segmentation by Application:

Construction Industry

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Logistics and Warehousing

Transportation Equipment

Energy and Power Facilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Radi-Cool

MG Energy

i2Cool

SPACE COOL

Azure Era

SkyCool

CSCEC

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SolCold

SKSHU Paint

Pirta

ChillSkyn

Cryo X Co

Shandong Huacheng

AkzoNobel

Nippon Paint

SVG Optoelectronics

First New Material

Beixin Jiabaoli Coatings

Key Questions Addressed in this Report

What is the 10-year outlook for the global Passive Daytime Radiative Cooling (PDRC) market?

What factors are driving Passive Daytime Radiative Cooling (PDRC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Passive Daytime Radiative Cooling (PDRC) market opportunities vary by end market size?

How does Passive Daytime Radiative Cooling (PDRC) break out by Type, by

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Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Passive Daytime Radiative Cooling (PDRC) Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Passive Daytime Radiative Cooling (PDRC) by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Passive Daytime Radiative Cooling (PDRC) by Country/Region, 2021, 2025 & 2032
2.2 Passive Daytime Radiative Cooling (PDRC) Segment by Type
  2.2.1 Coating and Paint
  2.2.2 Membrane, Film and Sheet
  2.2.3 Others
  2.2.4 Passive Daytime Radiative Cooling (PDRC) Sales by Type
    2.2.4.1 Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Passive Daytime Radiative Cooling (PDRC) Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Type (2021-2026)
2.3 Passive Daytime Radiative Cooling (PDRC) Segment by Reflectivity
  2.3.1 Reflectivity Greater Than 96%
  2.3.2 Reflectivity Less Than 96%
  2.3.3 Passive Daytime Radiative Cooling (PDRC) Sales by Reflectivity
    2.3.3.1 Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Reflectivity (2021-2026)
    2.3.3.2 Global Passive Daytime Radiative Cooling (PDRC) Revenue and Market

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Share by Reflectivity (2021-2026)
2.3.3.3 Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Reflectivity (2021-2026)
2.4 Passive Daytime Radiative Cooling (PDRC) Segment by Color
2.4.1 White
2.4.2 Colored
2.4.3 Transparent
2.4.4 Passive Daytime Radiative Cooling (PDRC) Sales by Color
2.4.4.1 Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Color (2021-2026)
2.4.4.2 Global Passive Daytime Radiative Cooling (PDRC) Revenue and Market Share by Color (2021-2026)
2.4.4.3 Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Color (2021-2026)
2.5 Passive Daytime Radiative Cooling (PDRC) Segment by Application
2.5.1 Construction Industry
2.5.2 Logistics and Warehousing
2.5.3 Transportation Equipment
2.5.4 Energy and Power Facilities
2.5.5 Others
2.5.6 Passive Daytime Radiative Cooling (PDRC) Sales by Application
2.5.6.1 Global Passive Daytime Radiative Cooling (PDRC) Sale Market Share by Application (2021-2026)
2.5.6.2 Global Passive Daytime Radiative Cooling (PDRC) Revenue and Market Share by Application (2021-2026)
2.5.6.3 Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Passive Daytime Radiative Cooling (PDRC) Breakdown Data by Company
3.1.1 Global Passive Daytime Radiative Cooling (PDRC) Annual Sales by Company (2021-2026)
3.1.2 Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Company (2021-2026)
3.2 Global Passive Daytime Radiative Cooling (PDRC) Annual Revenue by Company (2021-2026)
3.2.1 Global Passive Daytime Radiative Cooling (PDRC) Revenue by Company (2021-2026)

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3.2.2 Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Company (2021-2026)
3.3 Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Company
3.4 Key Manufacturers Passive Daytime Radiative Cooling (PDRC) Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Passive Daytime Radiative Cooling (PDRC) Product Location Distribution
3.4.2 Players Passive Daytime Radiative Cooling (PDRC) Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PASSIVE DAYTIME RADIATIVE COOLING (PDRC) BY GEOGRAPHIC REGION

4.1 World Historic Passive Daytime Radiative Cooling (PDRC) Market Size by Geographic Region (2021-2026)
4.1.1 Global Passive Daytime Radiative Cooling (PDRC) Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Passive Daytime Radiative Cooling (PDRC) Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Passive Daytime Radiative Cooling (PDRC) Market Size by Country/Region (2021-2026)
4.2.1 Global Passive Daytime Radiative Cooling (PDRC) Annual Sales by Country/Region (2021-2026)
4.2.2 Global Passive Daytime Radiative Cooling (PDRC) Annual Revenue by Country/Region (2021-2026)
4.3 Americas Passive Daytime Radiative Cooling (PDRC) Sales Growth
4.4 APAC Passive Daytime Radiative Cooling (PDRC) Sales Growth
4.5 Europe Passive Daytime Radiative Cooling (PDRC) Sales Growth
4.6 Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales Growth

5 AMERICAS

5.1 Americas Passive Daytime Radiative Cooling (PDRC) Sales by Country
5.1.1 Americas Passive Daytime Radiative Cooling (PDRC) Sales by Country (2021-2026)

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info@marketpublishers.com

5.1.2 Americas Passive Daytime Radiative Cooling (PDRC) Revenue by Country (2021-2026)
5.2 Americas Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026)
5.3 Americas Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Passive Daytime Radiative Cooling (PDRC) Sales by Region
6.1.1 APAC Passive Daytime Radiative Cooling (PDRC) Sales by Region (2021-2026)
6.1.2 APAC Passive Daytime Radiative Cooling (PDRC) Revenue by Region (2021-2026)
6.2 APAC Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026)
6.3 APAC Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Passive Daytime Radiative Cooling (PDRC) by Country
7.1.1 Europe Passive Daytime Radiative Cooling (PDRC) Sales by Country (2021-2026)
7.1.2 Europe Passive Daytime Radiative Cooling (PDRC) Revenue by Country (2021-2026)
7.2 Europe Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026)
7.3 Europe Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026)
7.4 Germany
7.5 France

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7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Passive Daytime Radiative Cooling (PDRC) by Country
  8.1.1 Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Revenue by Country (2021-2026)
8.2 Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026)
8.3 Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Passive Daytime Radiative Cooling (PDRC)
10.3 Manufacturing Process Analysis of Passive Daytime Radiative Cooling (PDRC)
10.4 Industry Chain Structure of Passive Daytime Radiative Cooling (PDRC)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels

+357 96 030922
info@marketpublishers.com

11.1.2 Indirect Channels
11.2 Passive Daytime Radiative Cooling (PDRC) Distributors
11.3 Passive Daytime Radiative Cooling (PDRC) Customer

12 WORLD FORECAST REVIEW FOR PASSIVE DAYTIME RADIATIVE COOLING (PDRC) BY GEOGRAPHIC REGION

12.1 Global Passive Daytime Radiative Cooling (PDRC) Market Size Forecast by Region
12.1.1 Global Passive Daytime Radiative Cooling (PDRC) Forecast by Region (2027-2032)
12.1.2 Global Passive Daytime Radiative Cooling (PDRC) Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Passive Daytime Radiative Cooling (PDRC) Forecast by Type (2027-2032)
12.7 Global Passive Daytime Radiative Cooling (PDRC) Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Radi-Cool
13.1.1 Radi-Cool Company Information
13.1.2 Radi-Cool Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.1.3 Radi-Cool Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Radi-Cool Main Business Overview
13.1.5 Radi-Cool Latest Developments
13.2 MG Energy
13.2.1 MG Energy Company Information
13.2.2 MG Energy Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.2.3 MG Energy Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 MG Energy Main Business Overview
13.2.5 MG Energy Latest Developments

+357 96 030922
info@marketpublishers.com

13.3 i2Cool
13.3.1 i2Cool Company Information
13.3.2 i2Cool Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.3.3 i2Cool Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 i2Cool Main Business Overview
13.3.5 i2Cool Latest Developments
13.4 SPACE COOL
13.4.1 SPACE COOL Company Information
13.4.2 SPACE COOL Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.4.3 SPACE COOL Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 SPACE COOL Main Business Overview
13.4.5 SPACE COOL Latest Developments
13.5 Azure Era
13.5.1 Azure Era Company Information
13.5.2 Azure Era Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.5.3 Azure Era Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Azure Era Main Business Overview
13.5.5 Azure Era Latest Developments
13.6 SkyCool
13.6.1 SkyCool Company Information
13.6.2 SkyCool Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.6.3 SkyCool Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 SkyCool Main Business Overview
13.6.5 SkyCool Latest Developments
13.7 CSCEC
13.7.1 CSCEC Company Information
13.7.2 CSCEC Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.7.3 CSCEC Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 CSCEC Main Business Overview

+357 96 030922
info@marketpublishers.com

13.7.5 CSCEC Latest Developments
13.8 SolCold
13.8.1 SolCold Company Information
13.8.2 SolCold Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.8.3 SolCold Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 SolCold Main Business Overview
13.8.5 SolCold Latest Developments
13.9 SKSHU Paint
13.9.1 SKSHU Paint Company Information
13.9.2 SKSHU Paint Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.9.3 SKSHU Paint Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 SKSHU Paint Main Business Overview
13.9.5 SKSHU Paint Latest Developments
13.10 Pirta
13.10.1 Pirta Company Information
13.10.2 Pirta Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.10.3 Pirta Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Pirta Main Business Overview
13.10.5 Pirta Latest Developments
13.11 ChillSkyn
13.11.1 ChillSkyn Company Information
13.11.2 ChillSkyn Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.11.3 ChillSkyn Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 ChillSkyn Main Business Overview
13.11.5 ChillSkyn Latest Developments
13.12 Cryo X Co
13.12.1 Cryo X Co Company Information
13.12.2 Cryo X Co Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.12.3 Cryo X Co Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
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13.12.4 Cryo X Co Main Business Overview
13.12.5 Cryo X Co Latest Developments
13.13 Shandong Huacheng
13.13.1 Shandong Huacheng Company Information
13.13.2 Shandong Huacheng Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.13.3 Shandong Huacheng Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Shandong Huacheng Main Business Overview
13.13.5 Shandong Huacheng Latest Developments
13.14 AkzoNobel
13.14.1 AkzoNobel Company Information
13.14.2 AkzoNobel Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.14.3 AkzoNobel Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 AkzoNobel Main Business Overview
13.14.5 AkzoNobel Latest Developments
13.15 Nippon Paint
13.15.1 Nippon Paint Company Information
13.15.2 Nippon Paint Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.15.3 Nippon Paint Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 Nippon Paint Main Business Overview
13.15.5 Nippon Paint Latest Developments
13.16 SVG Optoelectronics
13.16.1 SVG Optoelectronics Company Information
13.16.2 SVG Optoelectronics Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.16.3 SVG Optoelectronics Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 SVG Optoelectronics Main Business Overview
13.16.5 SVG Optoelectronics Latest Developments
13.17 First New Material
13.17.1 First New Material Company Information
13.17.2 First New Material Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.17.3 First New Material Passive Daytime Radiative Cooling (PDRC) Sales,

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Revenue, Price and Gross Margin (2021-2026)
13.17.4 First New Material Main Business Overview
13.17.5 First New Material Latest Developments
13.18 Beixin Jiabaoli Coatings
13.18.1 Beixin Jiabaoli Coatings Company Information
13.18.2 Beixin Jiabaoli Coatings Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
13.18.3 Beixin Jiabaoli Coatings Passive Daytime Radiative Cooling (PDRC) Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Beixin Jiabaoli Coatings Main Business Overview
13.18.5 Beixin Jiabaoli Coatings Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. Passive Daytime Radiative Cooling (PDRC) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Passive Daytime Radiative Cooling (PDRC) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Coating and Paint
Table 4. Major Players of Membrane, Film and Sheet
Table 5. Major Players of Others
Table 6. Global Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026) & (K Sqm)
Table 7. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type (2021-2026)
Table 8. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Type (2021-2026) & ($ million)
Table 9. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Type (2021-2026)
Table 10. Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Type (2021-2026) & (US$/Sq m)
Table 11. Major Players of Reflectivity Greater Than 96%
Table 12. Major Players of Reflectivity Less Than 96%
Table 13. Global Passive Daytime Radiative Cooling (PDRC) Sales by Reflectivity (2021-2026) & (K Sqm)
Table 14. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Reflectivity (2021-2026)
Table 15. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Reflectivity (2021-2026) & ($ million)
Table 16. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Reflectivity (2021-2026)
Table 17. Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Reflectivity (2021-2026) & (US$/Sq m)
Table 18. Major Players of White
Table 19. Major Players of Colored
Table 20. Major Players of Transparent
Table 21. Global Passive Daytime Radiative Cooling (PDRC) Sales by Color (2021-2026) & (K Sqm)
Table 22. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by

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Color (2021-2026)
Table 23. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Color (2021-2026) & ($ million)
Table 24. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Color (2021-2026)
Table 25. Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Color (2021-2026) & (US$/Sq m)
Table 26. Global Passive Daytime Radiative Cooling (PDRC) Sale by Application (2021-2026) & (K Sqm)
Table 27. Global Passive Daytime Radiative Cooling (PDRC) Sale Market Share by Application (2021-2026)
Table 28. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Application (2021-2026) & ($ million)
Table 29. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Application (2021-2026)
Table 30. Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Application (2021-2026) & (US$/Sq m)
Table 31. Global Passive Daytime Radiative Cooling (PDRC) Sales by Company (2021-2026) & (K Sqm)
Table 32. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Company (2021-2026)
Table 33. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Company (2021-2026) & ($ millions)
Table 34. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Company (2021-2026)
Table 35. Global Passive Daytime Radiative Cooling (PDRC) Sale Price by Company (2021-2026) & (US$/Sq m)
Table 36. Key Manufacturers Passive Daytime Radiative Cooling (PDRC) Producing Area Distribution and Sales Area
Table 37. Players Passive Daytime Radiative Cooling (PDRC) Products Offered
Table 38. Passive Daytime Radiative Cooling (PDRC) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 39. New Products and Potential Entrants
Table 40. Market M&A Activity & Strategy
Table 41. Global Passive Daytime Radiative Cooling (PDRC) Sales by Geographic Region (2021-2026) & (K Sqm)
Table 42. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share Geographic Region (2021-2026)
Table 43. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Geographic

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Region (2021-2026) & ($ millions)
Table 44. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Geographic Region (2021-2026)
Table 45. Global Passive Daytime Radiative Cooling (PDRC) Sales by Country/Region (2021-2026) & (K Sqm)
Table 46. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country/Region (2021-2026)
Table 47. Global Passive Daytime Radiative Cooling (PDRC) Revenue by Country/Region (2021-2026) & ($ millions)
Table 48. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Country/Region (2021-2026)
Table 49. Americas Passive Daytime Radiative Cooling (PDRC) Sales by Country (2021-2026) & (K Sqm)
Table 50. Americas Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country (2021-2026)
Table 51. Americas Passive Daytime Radiative Cooling (PDRC) Revenue by Country (2021-2026) & ($ millions)
Table 52. Americas Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026) & (K Sqm)
Table 53. Americas Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026) & (K Sqm)
Table 54. APAC Passive Daytime Radiative Cooling (PDRC) Sales by Region (2021-2026) & (K Sqm)
Table 55. APAC Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Region (2021-2026)
Table 56. APAC Passive Daytime Radiative Cooling (PDRC) Revenue by Region (2021-2026) & ($ millions)
Table 57. APAC Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026) & (K Sqm)
Table 58. APAC Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026) & (K Sqm)
Table 59. Europe Passive Daytime Radiative Cooling (PDRC) Sales by Country (2021-2026) & (K Sqm)
Table 60. Europe Passive Daytime Radiative Cooling (PDRC) Revenue by Country (2021-2026) & ($ millions)
Table 61. Europe Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026) & (K Sqm)
Table 62. Europe Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026) & (K Sqm)

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Table 63. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales by Country (2021-2026) & (K Sqm)
Table 64. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Country (2021-2026)
Table 65. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales by Type (2021-2026) & (K Sqm)
Table 66. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales by Application (2021-2026) & (K Sqm)
Table 67. Key Market Drivers & Growth Opportunities of Passive Daytime Radiative Cooling (PDRC)
Table 68. Key Market Challenges & Risks of Passive Daytime Radiative Cooling (PDRC)
Table 69. Key Industry Trends of Passive Daytime Radiative Cooling (PDRC)
Table 70. Passive Daytime Radiative Cooling (PDRC) Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. Passive Daytime Radiative Cooling (PDRC) Distributors List
Table 73. Passive Daytime Radiative Cooling (PDRC) Customer List
Table 74. Global Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Region (2027-2032) & (K Sqm)
Table 75. Global Passive Daytime Radiative Cooling (PDRC) Revenue Forecast by Region (2027-2032) & ($ millions)
Table 76. Americas Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Country (2027-2032) & (K Sqm)
Table 77. Americas Passive Daytime Radiative Cooling (PDRC) Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 78. APAC Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Region (2027-2032) & (K Sqm)
Table 79. APAC Passive Daytime Radiative Cooling (PDRC) Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 80. Europe Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Country (2027-2032) & (K Sqm)
Table 81. Europe Passive Daytime Radiative Cooling (PDRC) Revenue Forecast by Country (2027-2032) & ($ millions)
Table 82. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Country (2027-2032) & (K Sqm)
Table 83. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Revenue Forecast by Country (2027-2032) & ($ millions)
Table 84. Global Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Type (2027-2032) & (K Sqm)

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Table 85. Global Passive Daytime Radiative Cooling (PDRC) Revenue Forecast by Type (2027-2032) & ($ millions)
Table 86. Global Passive Daytime Radiative Cooling (PDRC) Sales Forecast by Application (2027-2032) & (K Sqm)
Table 87. Global Passive Daytime Radiative Cooling (PDRC) Revenue Forecast by Application (2027-2032) & ($ millions)
Table 88. Radi-Cool Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 89. Radi-Cool Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 90. Radi-Cool Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 91. Radi-Cool Main Business
Table 92. Radi-Cool Latest Developments
Table 93. MG Energy Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 94. MG Energy Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 95. MG Energy Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 96. MG Energy Main Business
Table 97. MG Energy Latest Developments
Table 98. i2Cool Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 99. i2Cool Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 100. i2Cool Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 101. i2Cool Main Business
Table 102. i2Cool Latest Developments
Table 103. SPACE COOL Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 104. SPACE COOL Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 105. SPACE COOL Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 106. SPACE COOL Main Business
Table 107. SPACE COOL Latest Developments
Table 108. Azure Era Basic Information, Passive Daytime Radiative Cooling (PDRC)

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Manufacturing Base, Sales Area and Its Competitors
Table 109. Azure Era Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 110. Azure Era Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 111. Azure Era Main Business
Table 112. Azure Era Latest Developments
Table 113. SkyCool Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 114. SkyCool Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 115. SkyCool Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 116. SkyCool Main Business
Table 117. SkyCool Latest Developments
Table 118. CSCEC Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 119. CSCEC Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 120. CSCEC Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 121. CSCEC Main Business
Table 122. CSCEC Latest Developments
Table 123. SolCold Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 124. SolCold Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 125. SolCold Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 126. SolCold Main Business
Table 127. SolCold Latest Developments
Table 128. SKSHU Paint Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 129. SKSHU Paint Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 130. SKSHU Paint Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 131. SKSHU Paint Main Business
Table 132. SKSHU Paint Latest Developments

+357 96 030922
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Table 133. Pirta Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 134. Pirta Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 135. Pirta Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 136. Pirta Main Business
Table 137. Pirta Latest Developments
Table 138. ChillSkyn Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 139. ChillSkyn Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 140. ChillSkyn Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 141. ChillSkyn Main Business
Table 142. ChillSkyn Latest Developments
Table 143. Cryo X Co Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 144. Cryo X Co Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 145. Cryo X Co Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 146. Cryo X Co Main Business
Table 147. Cryo X Co Latest Developments
Table 148. Shandong Huacheng Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 149. Shandong Huacheng Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 150. Shandong Huacheng Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 151. Shandong Huacheng Main Business
Table 152. Shandong Huacheng Latest Developments
Table 153. AkzoNobel Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 154. AkzoNobel Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 155. AkzoNobel Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 156. AkzoNobel Main Business

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Table 157. AkzoNobel Latest Developments
Table 158. Nippon Paint Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 159. Nippon Paint Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 160. Nippon Paint Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 161. Nippon Paint Main Business
Table 162. Nippon Paint Latest Developments
Table 163. SVG Optoelectronics Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 164. SVG Optoelectronics Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 165. SVG Optoelectronics Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 166. SVG Optoelectronics Main Business
Table 167. SVG Optoelectronics Latest Developments
Table 168. First New Material Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 169. First New Material Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 170. First New Material Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 171. First New Material Main Business
Table 172. First New Material Latest Developments
Table 173. Beixin Jiabaoli Coatings Basic Information, Passive Daytime Radiative Cooling (PDRC) Manufacturing Base, Sales Area and Its Competitors
Table 174. Beixin Jiabaoli Coatings Passive Daytime Radiative Cooling (PDRC) Product Portfolios and Specifications
Table 175. Beixin Jiabaoli Coatings Passive Daytime Radiative Cooling (PDRC) Sales (K Sqm), Revenue ($ Million), Price (US$/Sq m) and Gross Margin (2021-2026)
Table 176. Beixin Jiabaoli Coatings Main Business
Table 177. Beixin Jiabaoli Coatings Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Passive Daytime Radiative Cooling (PDRC)
Figure 2. Passive Daytime Radiative Cooling (PDRC) Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Passive Daytime Radiative Cooling (PDRC) Sales Growth Rate 2021-2032 (K Sqm)
Figure 7. Global Passive Daytime Radiative Cooling (PDRC) Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Passive Daytime Radiative Cooling (PDRC) Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country/Region (2025)
Figure 10. Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Coating and Paint
Figure 12. Product Picture of Membrane, Film and Sheet
Figure 13. Product Picture of Others
Figure 14. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type in 2026
Figure 15. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Reflectivity Greater Than 96%
Figure 17. Product Picture of Reflectivity Less Than 96%
Figure 18. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Reflectivity in 2026
Figure 19. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Reflectivity (2021-2026)
Figure 20. Product Picture of White
Figure 21. Product Picture of Colored
Figure 22. Product Picture of Transparent
Figure 23. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Color in 2026
Figure 24. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Color (2021-2026)

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Figure 25. Passive Daytime Radiative Cooling (PDRC) Consumed in Construction Industry
Figure 26. Global Passive Daytime Radiative Cooling (PDRC) Market: Construction Industry (2021-2026) & (K Sqm)
Figure 27. Passive Daytime Radiative Cooling (PDRC) Consumed in Logistics and Warehousing
Figure 28. Global Passive Daytime Radiative Cooling (PDRC) Market: Logistics and Warehousing (2021-2026) & (K Sqm)
Figure 29. Passive Daytime Radiative Cooling (PDRC) Consumed in Transportation Equipment
Figure 30. Global Passive Daytime Radiative Cooling (PDRC) Market: Transportation Equipment (2021-2026) & (K Sqm)
Figure 31. Passive Daytime Radiative Cooling (PDRC) Consumed in Energy and Power Facilities
Figure 32. Global Passive Daytime Radiative Cooling (PDRC) Market: Energy and Power Facilities (2021-2026) & (K Sqm)
Figure 33. Passive Daytime Radiative Cooling (PDRC) Consumed in Others
Figure 34. Global Passive Daytime Radiative Cooling (PDRC) Market: Others (2021-2026) & (K Sqm)
Figure 35. Global Passive Daytime Radiative Cooling (PDRC) Sale Market Share by Application (2025)
Figure 36. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Application in 2025
Figure 37. Passive Daytime Radiative Cooling (PDRC) Sales by Company in 2025 (K Sqm)
Figure 38. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Company in 2025
Figure 39. Passive Daytime Radiative Cooling (PDRC) Revenue by Company in 2025 ($ millions)
Figure 40. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Company in 2025
Figure 41. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Geographic Region (2021-2026)
Figure 42. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Geographic Region in 2025
Figure 43. Americas Passive Daytime Radiative Cooling (PDRC) Sales 2021-2026 (K Sqm)
Figure 44. Americas Passive Daytime Radiative Cooling (PDRC) Revenue 2021-2026 ($ millions)

+357 96 030922
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Figure 45. APAC Passive Daytime Radiative Cooling (PDRC) Sales 2021-2026 (K Sqm)
Figure 46. APAC Passive Daytime Radiative Cooling (PDRC) Revenue 2021-2026 ($ millions)
Figure 47. Europe Passive Daytime Radiative Cooling (PDRC) Sales 2021-2026 (K Sqm)
Figure 48. Europe Passive Daytime Radiative Cooling (PDRC) Revenue 2021-2026 ($ millions)
Figure 49. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales 2021-2026 (K Sqm)
Figure 50. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Revenue 2021-2026 ($ millions)
Figure 51. Americas Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country in 2025
Figure 52. Americas Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Country (2021-2026)
Figure 53. Americas Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type (2021-2026)
Figure 54. Americas Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Application (2021-2026)
Figure 55. United States Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 56. Canada Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 57. Mexico Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 58. Brazil Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 59. APAC Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Region in 2025
Figure 60. APAC Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Region (2021-2026)
Figure 61. APAC Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type (2021-2026)
Figure 62. APAC Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Application (2021-2026)
Figure 63. China Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 64. Japan Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)

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Figure 65. South Korea Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 66. Southeast Asia Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 67. India Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 68. Australia Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 69. China Taiwan Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 70. Europe Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country in 2025
Figure 71. Europe Passive Daytime Radiative Cooling (PDRC) Revenue Market Share by Country (2021-2026)
Figure 72. Europe Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type (2021-2026)
Figure 73. Europe Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Application (2021-2026)
Figure 74. Germany Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 75. France Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 76. UK Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 77. Italy Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 78. Russia Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 79. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Country (2021-2026)
Figure 80. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Type (2021-2026)
Figure 81. Middle East & Africa Passive Daytime Radiative Cooling (PDRC) Sales Market Share by Application (2021-2026)
Figure 82. Egypt Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 83. South Africa Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 84. Israel Passive Daytime Radiative Cooling (PDRC) Revenue Growth

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2021-2026 ($ millions)
Figure 85. Turkey Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 86. GCC Countries Passive Daytime Radiative Cooling (PDRC) Revenue Growth 2021-2026 ($ millions)
Figure 87. Manufacturing Cost Structure Analysis of Passive Daytime Radiative Cooling (PDRC) in 2026
Figure 88. Manufacturing Process Analysis of Passive Daytime Radiative Cooling (PDRC)
Figure 89. Industry Chain Structure of Passive Daytime Radiative Cooling (PDRC)
Figure 90. Channels of Distribution
Figure 91. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Forecast by Region (2027-2032)
Figure 92. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share Forecast by Region (2027-2032)
Figure 93. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share Forecast by Type (2027-2032)
Figure 94. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share Forecast by Type (2027-2032)
Figure 95. Global Passive Daytime Radiative Cooling (PDRC) Sales Market Share Forecast by Application (2027-2032)
Figure 96. Global Passive Daytime Radiative Cooling (PDRC) Revenue Market Share Forecast by Application (2027-2032)

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