

Global Radiative Cooling Technology Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Radiative Cooling Technology market size was valued at US\$ 22.16 million in 2025 and is forecast to a readjusted size of US\$ 100 million by 2032 with a CAGR of 21.6% during review period.

Radiative cooling technology is an innovative passive cooling method that allows objects to release heat by emitting infrared radiation, which passes through the atmosphere and into outer space. This process can cool surfaces below ambient air temperatures without using electricity or active cooling systems. The technology typically involves materials or coatings that reflect sunlight while efficiently radiating heat in the infrared spectrum, making it particularly effective in hot and sunny climates. Radiative cooling has potential applications in building temperature regulation, improving energy efficiency, reducing reliance on air conditioning, and enhancing the performance of solar panels by keeping them cool. The average price of coating products is approximately US\$6.29 per square meter, while the average price of film products is US\$30 per square meter.

Passive Daytime Radiative Cooling (PDRC) is an emerging thermal management technology that enables surfaces to remain cooler than the ambient temperature under direct sunlight without consuming energy. This is achieved by engineering materials or coatings that reflect most of the incoming solar radiation while emitting thermal radiation through the atmospheric transparency window (8–13 μ m) directly into outer space. The technology holds significant promise for applications in building envelopes, automotive components, textiles, and portable electronics, driven by the global push for energy efficiency, net-zero buildings, and sustainable cooling solutions. Advances in photonic materials, polymer composites, and scalable manufacturing processes (e.g., roll-to-roll

production of PDRC films) are accelerating the transition from lab-scale prototypes to commercial products.

The PDRC market landscape is shaped by growing regulatory and societal pressures to reduce carbon emissions and mitigate the urban heat island effect. Adoption is supported by incentives for green buildings, stringent building energy codes, and rising demand for off-grid cooling solutions, particularly in hot and arid regions. However, challenges remain in achieving durability, cost competitiveness, and aesthetic flexibility (e.g., colored or patterned PDRC surfaces) compared to traditional cooling coatings and materials. Key players in this space include startups, material science innovators, and academic spin-offs collaborating with construction, automotive, and textile industries to integrate PDRC into practical, large-scale applications.

This report is a detailed and comprehensive analysis for global Radiative Cooling Technology market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Radiative Cooling Technology market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Radiative Cooling Technology market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Radiative Cooling Technology market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2021-2032

Global Radiative Cooling Technology market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Radiative Cooling Technology
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Radiative Cooling Technology market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SPACE COOL, Azure Era, i2Cool, MG Energy, Radi-Cool, CSCEC, Pirta, Cryox, 3M, AkzoNobel, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Radiative Cooling Technology market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Paints

Films

Others

Market segment by Reflectivity

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

Market segment by Color

White

Colored

Transparent

Market segment by Application

Construction Industry

Warehousing

Transportation Equipment

Energy and Power Facilities

Others

Major players covered

SPACE COOL

Azure Era

i2Cool

MG Energy

Radi-Cool

CSCEC

Pirta

Cryox

3M

AkzoNobel

Aorun Advanced Materials

SKSHU Paint

Nippon Paint

Beixin Jiabaoli Coatings

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Radiative Cooling Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Radiative Cooling Technology, with price, sales quantity, revenue, and global market share of Radiative Cooling Technology from 2021 to 2026.

Chapter 3, the Radiative Cooling Technology competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Radiative Cooling Technology breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Radiative Cooling Technology market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Radiative Cooling Technology.

Chapter 14 and 15, to describe Radiative Cooling Technology sales channel, distributors, customers, research findings and conclusion.

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