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Global Zero-Energy Cooling Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Zero-Energy Cooling Technology market size is expected to reach $ 98 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

Zero-Energy Cooling Technology refers to cooling methods that minimize or eliminate the need for conventional electricity-driven refrigeration by using passive heat transfer, natural ventilation, radiative cooling, evaporative cooling, phase-change materials, geothermal exchange, or other energy-saving mechanisms. It is mainly used in buildings, data centers, cold-chain storage, electronics, and industrial facilities to reduce power consumption, carbon emissions, and operating costs while improving thermal comfort and equipment reliability.

Zero-Energy Cooling Technology market is growing as governments, building owners, data center operators, and industrial users seek low-carbon and energy-efficient cooling solutions. Demand is mainly driven by rising electricity costs, stricter energy-efficiency regulations, urban heat-island effects, and the rapid growth of heat-intensive infrastructure such as AI data centers and electronics. In the future, passive cooling materials, radiative cooling coatings, phase-change thermal storage, and hybrid low-energy cooling systems are expected to see wider adoption across green buildings, cold-chain logistics, and industrial cooling applications.

This report studies the global Zero-Energy Cooling Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Zero-Energy Cooling Technology, and provides market size (US$ million) and Year-over-

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Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Zero-Energy Cooling Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Zero-Energy Cooling Technology total market, 2021-2032, (USD Million)
Global Zero-Energy Cooling Technology total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Zero-Energy Cooling Technology total market, key domestic companies, and share, (USD Million)
Global Zero-Energy Cooling Technology revenue by player, revenue and market share 2021-2026, (USD Million)
Global Zero-Energy Cooling Technology total market by Type, CAGR, 2021-2032, (USD Million)
Global Zero-Energy Cooling Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Zero-Energy Cooling Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Innofocus, Heat Inverse, Parasol Innovations, SolarMantle, SPACECOOL, Cryo X Co, Coldrays, i2Cool, Moguang Xinneng Technology, Ningbo Radi-Cool Advanced Energy Technologies, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Zero-Energy Cooling Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Zero-Energy Cooling Technology Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Zero-Energy Cooling Technology Market, Segmentation by Type:

Fiber-Based Film

Coating Film

Others

Global Zero-Energy Cooling Technology Market, Segmentation by Physics:

Passive Radiative Cooling

Phase Change Material Cooling

Others

Global Zero-Energy Cooling Technology Market, Segmentation by Application:

Architecture

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Consumer Electronics

AI Servers / Data Centers

Others

Companies Profiled:

Innofocus

Heat Inverse

Parasol Innovations

SolarMantle

SPACECOOL

Cryo X Co

Coldrays

i2Cool

Moguang Xinneng Technology

Ningbo Radi-Cool Advanced Energy Technologies

Key Questions Answered
1. How big is the global Zero-Energy Cooling Technology market?
2. What is the demand of the global Zero-Energy Cooling Technology market?
3. What is the year over year growth of the global Zero-Energy Cooling Technology market?
4. What is the total value of the global Zero-Energy Cooling Technology market?
5. Who are the Major Players in the global Zero-Energy Cooling Technology market?
6. What are the growth factors driving the market demand?

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Contents

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5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY PHYSICS

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11 APPENDIX

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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