

Evaporative Cooling Market Report Size, Share, Trends and Forecast by Cooling, Distribution Channel, Application, and Region, 2025-2033

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Abstracts

The global evaporative cooling market size was valued at USD 6.75 Billion in 2024. Looking forward, IMARC Group estimates the market to reach USD 10.81 Billion by 2033, exhibiting a CAGR of 5.11% during 2025-2033. Asia-Pacific currently dominates the market, holding a significant market share of over 39.4% in 2024. The expanding use of evaporative cooling in the industrial sector, the increasing demand for cost-effective, energy-efficient, and sustainable solutions, along with various initiatives from governing bodies, are key factors driving the growth of the evaporative cooling market share.

The Rising Application in Industrial Sector Augmenting the Market Growth

The evaporative cooling market has been experiencing continuous growth. The rising demand for evaporative cooling in the industrial sector represents one of the key factors propelling the market growth. The evaporative coolers are widely utilized in warehouses, factories, power generation, manufacturing units, oil and gas, and construction industries. The rising demand for evaporative cooling due to the implementation of energy standards in the industrial sector. The Department of Energy and Energy Solutions Center (ESC) has created standards, such as ISO 50001, to recognize and implement various energy projects that saves money and decreases energy use.

Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. The market structure is fragmented with the presence of numerous

international and regional players in the industry. The volume of new entrants is moderate due to high initial capital investments, technology intensive nature, and moderate product differentiation.

What is Evaporative Cooling?

Evaporative cooling, also known as adiabatic cooling, refers to the cooling and ventilation method that uses water as its refrigerant. It comprises direct, indirect, and two-stage evaporative cooling. It relies on the principle of water evaporation through which the air is cooled down to a certain temperature. It is a highly sustainable and energy-efficient cooling method that offers a comfortable and productive climate for production facilities, distribution centers, and office buildings. It assists in improving indoor air quality by providing fresh, clean, filtered, and cool air without recirculating the warm air. As it finds extensive applications in confinement farming, residential, commercial, and industrial purposes, the demand for evaporative cooling is increasing across the globe.

COVID-19 Impact:

The COVID-19 pandemic outbreak has caused a severe problem for the evaporative cooling market due to the prolonged lockdown. Many production plants of evaporative coolers were either shut down or had to slow down their production. There was a significant disruption in the supply of materials from the major suppliers, which adversely affected the transportation and logistics of businesses. In addition, the availability of raw materials was highly impacted due to the massive disruption in the global supply chain. Apart from this, volatility in crude prices also affected both raw material prices and end-product prices, which impacted the profitability of manufacturers. In the year 2020, the demand for evaporative cooling systems got impacted due to the imposition of lockdown in various sectors. However, the global COVID-19 pandemic increased the need to improve workforce challenges and develop operational safety in factory environments. As evaporative coolers provide fresh air without recirculating the air, they have assisted in overcoming concerns associated with COVID-19 pandemic conditions.

Evaporative Cooling Market Trends:

At present, the increasing demand for evaporative cooling in the industrial sector represents one of the major factors supporting the growth of the market. Besides this, the growing demand for evaporative cooling solutions due to the rapid development of

various data centers across the globe is positively influencing the market. In addition, the rising demand for cost-effective, energy-efficient, and clean and sustainable energy solutions worldwide is propelling the growth of the market. Apart from this, governing agencies of various countries are encouraging the adoption of evaporative cooling solutions to reduce carbon footprint emissions, which is contributing to the growth of the market. Additionally, the increasing demand for evaporative cooling in residential and commercial sectors is offering a favorable market outlook.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global evaporative cooling market, along with forecasts at the global, regional, and country levels from 2025-2033. The market has been categorized based on cooling, distribution channel, and application.

Type of Cooling Insights:

Direct Evaporative Cooling

Indirect Evaporative Cooling

Two-stage Evaporative Cooling

The report has provided a detailed breakup and analysis of the evaporative cooling market based on the type of cooling. This includes direct evaporative cooling, indirect evaporative cooling, and two-stage evaporative cooling. According to the report, indirect evaporative cooling represented the largest segment as it is suitable for critical conditions and provides better air quality. It assists in lowering both initial and ongoing operational costs. In addition, the introduction of new variants in indirect evaporative cooling is propelling the market growth.

Distribution Channel Insights:

Big-box Retailers

HVAC Contractors and Distributors

Others

A detailed breakup and analysis of the evaporative cooling market based on the distribution channel has also been provided in the report. This includes big-box retailers, HVAC contractors and distributors, and others. According to the report, big-box retailers represented the largest segment as they provide better services to the expanding consumer base. In addition, big-box retailers are taking advantage of new government incentive programs, which is positively influencing the market.

Application Insights:

Residential

Commercial

Industrial

Confinement Farming

Others

A detailed breakup and analysis of the evaporative cooling market based on the application has also been provided in the report. This includes residential, commercial, industrial, confinement farming, and others. According to the report, industrial represented the largest segment due to the rising utilization of evaporative coolers in warehouses, factories, power generation, construction, oil and gas, and manufacturing units. In addition, there is an increase in the demand for evaporative coolers in the industrial sector due to the growing need to improve energy efficiency.

Regional Insights:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for evaporative cooling. The growing temperatures in the region is facilitating the growth of the Asia Pacific evaporative cooling market. The rising demand for evaporative cooling solutions due to the inflating income levels of individuals in the region is also strengthening the market growth. The key manufacturers in this industry are rapidly advancing their technologies and introducing efficient and enhanced solutions to the consumers.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global evaporative cooling market. Some of the companies covered include:

Baltimore Aircoil Company Inc. (Amsted Industries Incorporated)

Bonaire Heating & Cooling

Celsius Design Limited

CFW Evapcool

Colt Group Limited

Condair Group AG

Delta Cooling Towers Inc.

EcoCooling

ENEXIO Water Technologies GmbH

Munters Group

Phoenix Manufacturing Inc.

SPX Cooling Technologies Inc. (SPX Corporation)

Key Questions Answered in This Report

- 1.How big is the evaporative cooling market?
- 2.What is the future outlook of evaporative cooling market?
- 3.What are the key factors driving the evaporative cooling market?
- 4.Which region accounts for the largest evaporative cooling market share?
- 5.Which are the leading companies in the global evaporative cooling market?

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