

Global Adiabatic Cooler Market Size Study & Forecast, by Product Type (Dry Air Cooler, Liquid Cooler), By End-User Industry (Oil and Gas, Industrial Manufacturing, Chemical and Petrochemical, Food and Beverages, Others), By Orientation (V Type, Horizontal), and Regional Analysis, 2023-2030

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Abstracts

Global Adiabatic Cooler Market is valued at approximately USD 0.63 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 4.9% over the forecast period 2023-2030. Adiabatic cooler, also known as a dry cooler or a closed-loop cooler, is a device used to cool fluids (typically water or a mixture of water and glycol) without direct contact between the cooling medium (usually air) and the fluid being cooled. Moreover, the growing rapid industrialization, growth of the food and beverages sector, and rising demand for data centers are anticipated to create the lucrative demand for the market during forecast period 2023-2030.

Additionally, with the increasing demand for data storage and processing capabilities, the construction of data centers is on the rise globally. Adiabatic coolers offer an efficient way to cool the vast amounts of heat generated by data center equipment, contributing to market growth. For instance, in year 2023, Amazon Web Services Inc. announced plans to invest \$35 billion by the year 2040 in the construction of new data centre infrastructure in Virginia, US. As part of the effort, AWS will build additional campuses for data centres in 'various regions' of Virginia. Also, in year 2022, Google unveiled a new USD 750 million data centre in the United States, staying true to its ambitions to invest USD 9.5 billion on new Google data centres and offices in 2022. As a result, the growing number of data centers is anticipated to support the market growth. Moreover, the growing rapid urbanization, and ongoing advancements in adiabatic

cooler technology is anticipated to create the lucrative opportunity for the market. However, the high initial cost, and maintenance requirements stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Adiabatic Cooler Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the Rising Demand for Data Centers, growing emphasis on sustainability and environmental responsibility across various industries, and ongoing advancements in adiabatic cooling technology, such as improvements in heat exchange efficiency, control systems, and materials, are enhancing the performance and reliability of adiabatic coolers. According to United States International Trade Commission, as of year 2021 US has the highest number of data center across the globe, the country has reported more than 2,600 data centers in year 2021 spread across the country. Along with these the country is witnessing rise in development and construction of new data centers which is further catering the market growth. Whereas, the Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the growing rapid urbanization, increasing awareness of environmental sustainability and energy efficiency, cohesive government initiatives aimed at reducing energy consumption and promoting sustainable practices further drive the adoption of adiabatic coolers in the region.

Major market players included in this report are:

Alfa Laval

Frigel Firenze S.P.A.

ICS Cool Energy Limited

EVAPCO, Inc.

Baltimore Aircoil Company Inc.

Thermax Limited

Guntner Group

Vistech Cooling Systems

MITA Group

SPX Cooling Technologies

Recent Developments in the Market:

In September 2023, FRIGEL FIRENZE S.p.A. introduced a cutting-edge adiabatic cooler, the Ecodry 4DK, featuring innovative pre-cooler pads. This advancement guarantees outstanding thermal efficiency and enhances safety during operation. The Ecodry 4DK represents a significant leap forward in efficient cooling technology, tailored especially for environments where conventional open cooling towers encounter hurdles like high water usage, complex water treatment requirements, and the potential risk of Legionella contamination.

Global Adiabatic Cooler Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product Type, End-User Industry, Orientation, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to

incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type:

Dry Air Cooler

Liquid Cooler

By End-User Industry:

Oil and Gas

Industrial Manufacturing

Chemical and Petrochemical

Food and Beverages

Others

By Orientation:

V Type

Horizontal

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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