

Adiabatic Cooler Market 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): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-11-01 | 264 pages | Allied Market Research

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Report description:

The global adiabatic cooler market was valued at \$626.8 million in 2022, and is projected to reach \$1,025.9 million by 2032, registering a CAGR of 4.9%. Adiabatic coolers operate on the basis of reducing the pressure applied to a mass of air, and the air in the mass is allowed to expand; as volume increases, air temperature decreases as its internal energy decreases. The fan pushes air across the coil of an adiabatic air cooler. As the heated air comes into contact with the wetted pad or water spray, the air temperature is decreased adiabatically, allowing sensible cooling of the coil below environment dry bulb temperature. The ambient temperature is lower than the set point for the fluid getting cooled, and the cooler enters dry mode, with the fans drawing ambient air across the coil to cool it.

Increase in demand for adiabatic cooler in industries, such as industrial manufacturing and oil & gas industries, drives market growth. In addition, factors such as industrial growth, technological advancement, energy efficiency requirements, and the need for sustainable cooling solutions contribute to the growth of the market. The adiabatic cooler uses wet pads to pre-cool the ambient air entering the tower. Pre-cooling helps to achieve a lower temperature than the ambient dry bulb temperature. This pre-cooled air is then used to cool process water or any other refrigerant. Achieving a cold-air temperature lower than dry bulb temperature is not possible in standard dry cooling systems, which is a major advantage of adiabatic coolers. In addition, depending on the mode of operation (water saving or energy saving), the in-built control systems autonomously regulate fan speed. Moreover, the growth in the industrial manufacturing sector has largely been aided by the rise in demand for manufactured goods and is expected to boost the adiabatic coolers market.

The adiabatic cooler market is segmented on the basis of product type, orientation, end-user industry, and region. By product type, the market is categorized into dry air coolers and liquid coolers. On the basis of orientation, it is bifurcated into V-type and

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horizontal. And on the basis of end-user industry, the market is classified into oil & gas, industrial manufacturing, chemical & petrochemical, food & beverage, and others.[]

Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Asia-Pacific dominated the market in 2020, accounting for the highest share, and LAMEA is anticipated to grow at the highest CAGR during the forecast period. This is attributed to the growing industrialization in the region.[]

The major players that operate in the global adiabatic cooler market have adopted key strategies such as product launch and product development to strengthen their market outreach and sustain the stiff competition in the market. For instance, in September 2023, FRIGEL FIRENZE S.p. A. launched an adiabatic cooler equipped with pre-cooler pads, ensuring not only exceptional thermal efficiency, however, also safe operation. The next-generation Ecodry 4DK is a groundbreaking solution in the field of efficient cooling, particularly suited for applications where traditional open cooling towers face challenges related to water consumption, treatment, and the risk of Legionella contamination.[]

COMPETITION ANALYSIS[]

Key companies profiled in the adiabatic cooler market report include ALFA LAVAL, Baltimore Aircoil Company Inc., EVAPCO, Inc., Guntner Group, FRIGEL FIRENZE S.p.A., ICS Cool Energy Limited, MITA Group, SPX Cooling Technologies, Thermax Limited, and Vistech Cooling Systems.[]

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KEY BENEFITS FOR STAKEHOLDERS[]

The report provides an extensive analysis of the current and emerging adiabatic cooler market trends and dynamics.[][]

In-depth adiabatic cooler market analysis is conducted by constructing market estimations for the key market segments between 2020 and 2032.[][]

Extensive analysis of the adiabatic cooler market is conducted by following key product positioning and monitoring of the top competitors within the market framework.[]

A comprehensive analysis of all regions is provided to determine the prevailing opportunities.[]

The Adiabatic Cooler Market forecast analysis from 2023 to 2032 is included in the report.[]

The key market players within the adiabatic cooler market are profiled in this report and their strategies are analyzed thoroughly, which help understand the competitive outlook of the adiabatic cooler industry.[]

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- Product Consumption Analysis
- Reimbursement Scenario
- SWOT Analysis
- Volume Market Size and Forecast

Key Market Segments

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
- Mexico
- Europe
- Germany
- UK
- France
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan

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- South Korea
- India
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- ALFA LAVAL
- EVAPCO, Inc.
- Thermax Limited
- ICS Cool Energy Limited
- SPX Cooling Technologies
- Guntner Group
- Baltimore Aircoil Company Inc.
- FRIGEL FIRENZE S.p.A.
- MITA Group
- Vistech Cooling Systems

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