

# 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

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
  - 1.2.1. Adiabatic Cooler Market, by Region, 2020-2030 (USD Billion)
  - 1.2.2. Adiabatic Cooler Market, by Product Type, 2020-2030 (USD Billion)
  - 1.2.3. Adiabatic Cooler Market, by End-User Industry, 2020-2030 (USD Billion)
  - 1.2.4. Adiabatic Cooler Market, by Orientation, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL ADIABATIC COOLER MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Industry Evolution
  - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL ADIABATIC COOLER MARKET DYNAMICS**

- 3.1. Adiabatic Cooler Market Impact Analysis (2020-2030)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Growing rapid industrialization
    - 3.1.1.2. Growth of the food and beverages sector
    - 3.1.1.3. Rising demand for data centers
  - 3.1.2. Market Challenges
    - 3.1.2.1. High initial cost
    - 3.1.2.2. Maintenance requirements
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Growing rapid urbanization
    - 3.1.3.2. Advancements in adiabatic cooler technology

### **CHAPTER 4. GLOBAL ADIABATIC COOLER MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL ADIABATIC COOLER MARKET, BY PRODUCT TYPE**

- 5.1. Market Snapshot
- 5.2. Global Adiabatic Cooler Market by Product Type, Performance - Potential Analysis
- 5.3. Global Adiabatic Cooler Market Estimates & Forecasts by Product Type 2020-2030 (USD Billion)
- 5.4. Adiabatic Cooler Market, Sub Segment Analysis
  - 5.4.1. Dry Air Cooler
  - 5.4.2. Liquid Cooler

## **CHAPTER 6. GLOBAL ADIABATIC COOLER MARKET, BY END-USER INDUSTRY**

- 6.1. Market Snapshot
- 6.2. Global Adiabatic Cooler Market by End-User Industry, Performance - Potential Analysis
- 6.3. Global Adiabatic Cooler Market Estimates & Forecasts by End-User Industry 2020-2030 (USD Billion)
- 6.4. Adiabatic Cooler Market, Sub Segment Analysis



- 6.4.1. Oil and Gas
- 6.4.2. Industrial Manufacturing
- 6.4.3. Chemical and Petrochemical
- 6.4.4. Food and Beverages
- 6.4.5. Others

## **CHAPTER 7. GLOBAL ADIABATIC COOLER MARKET, BY ORIENTATION**

- 7.1. Market Snapshot
- 7.2. Global Adiabatic Cooler Market by Orientation, Performance - Potential Analysis
- 7.3. Global Adiabatic Cooler Market Estimates & Forecasts by Orientation 2020-2030 (USD Billion)
- 7.4. Adiabatic Cooler Market, Sub Segment Analysis
  - 7.4.1. V Type
  - 7.4.2. Horizontal

## **CHAPTER 8. GLOBAL ADIABATIC COOLER MARKET, REGIONAL ANALYSIS**

- 8.1. Top Leading Countries
- 8.2. Top Emerging Countries
- 8.3. Adiabatic Cooler Market, Regional Market Snapshot
- 8.4. North America Adiabatic Cooler Market
  - 8.4.1. U.S. Adiabatic Cooler Market
    - 8.4.1.1. Product Type breakdown estimates & forecasts, 2020-2030
    - 8.4.1.2. End-User Industry breakdown estimates & forecasts, 2020-2030
    - 8.4.1.3. Orientation breakdown estimates & forecasts, 2020-2030
  - 8.4.2. Canada Adiabatic Cooler Market
- 8.5. Europe Adiabatic Cooler Market Snapshot
  - 8.5.1. U.K. Adiabatic Cooler Market
  - 8.5.2. Germany Adiabatic Cooler Market
  - 8.5.3. France Adiabatic Cooler Market
  - 8.5.4. Spain Adiabatic Cooler Market
  - 8.5.5. Italy Adiabatic Cooler Market
  - 8.5.6. Rest of Europe Adiabatic Cooler Market
- 8.6. Asia-Pacific Adiabatic Cooler Market Snapshot
  - 8.6.1. China Adiabatic Cooler Market
  - 8.6.2. India Adiabatic Cooler Market
  - 8.6.3. Japan Adiabatic Cooler Market
  - 8.6.4. Australia Adiabatic Cooler Market

- 8.6.5. South Korea Adiabatic Cooler Market
- 8.6.6. Rest of Asia Pacific Adiabatic Cooler Market
- 8.7. Latin America Adiabatic Cooler Market Snapshot
  - 8.7.1. Brazil Adiabatic Cooler Market
  - 8.7.2. Mexico Adiabatic Cooler Market
- 8.8. Middle East & Africa Adiabatic Cooler Market
  - 8.8.1. Saudi Arabia Adiabatic Cooler Market
  - 8.8.2. South Africa Adiabatic Cooler Market
  - 8.8.3. Rest of Middle East & Africa Adiabatic Cooler Market

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Key Company SWOT Analysis
  - 9.1.1. Company
  - 9.1.2. Company
  - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
  - 9.3.1. Alfa Laval
    - 9.3.1.1. Key Information
    - 9.3.1.2. Overview
    - 9.3.1.3. Financial (Subject to Data Availability)
    - 9.3.1.4. Product Summary
    - 9.3.1.5. Recent Developments
  - 9.3.2. Frigel Firenze S.P.A.
  - 9.3.3. ICS Cool Energy Limited
  - 9.3.4. EVAPCO, Inc.
  - 9.3.5. Baltimore Aircoil Company Inc.
  - 9.3.6. Thermax Limited
  - 9.3.7. Guntner Group
  - 9.3.8. Vistech Cooling Systems
  - 9.3.9. MITA Group
  - 9.3.10. SPX Cooling Technologies

## **CHAPTER 10. RESEARCH PROCESS**

- 10.1. Research Process
  - 10.1.1. Data Mining
  - 10.1.2. Analysis

- 10.1.3. Market Estimation
- 10.1.4. Validation
- 10.1.5. Publishing
- 10.2. Research Attributes
- 10.3. Research Assumption

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Adiabatic Cooler Market, report scope

TABLE 2. Global Adiabatic Cooler Market estimates & forecasts by Region 2020-2030 (USD Billion)

TABLE 3. Global Adiabatic Cooler Market estimates & forecasts by Product Type 2020-2030 (USD Billion)

TABLE 4. Global Adiabatic Cooler Market estimates & forecasts by End-User Industry 2020-2030 (USD Billion)

TABLE 5. Global Adiabatic Cooler Market estimates & forecasts by Orientation 2020-2030 (USD Billion)

TABLE 6. Global Adiabatic Cooler Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 7. Global Adiabatic Cooler Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Adiabatic Cooler Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Adiabatic Cooler Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Adiabatic Cooler Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Adiabatic Cooler Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Adiabatic Cooler Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Adiabatic Cooler Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Adiabatic Cooler Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. Global Adiabatic Cooler Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 17. U.S. Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. U.S. Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 19. Canada Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 20. Canada Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 26. Germany Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 29. France Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 35. Spain Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. RoE Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 40. China Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 41. China Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. China Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 43. India Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 44. India Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. India Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 46. Japan Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 47. Japan Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. Japan Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 49. South Korea Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 50. South Korea Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. South Korea Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 52. Australia Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 53. Australia Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. Australia Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 55. RoAPAC Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 56. RoAPAC Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. RoAPAC Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 58. Brazil Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

Billion)

TABLE 59. Brazil Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 62. Mexico Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 65. RoLA Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. Saudi Arabia Adiabatic Cooler Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 68. South Africa Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. RoMEA Adiabatic Cooler Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Adiabatic Cooler Market

TABLE 71. List of primary sources, used in the study of global Adiabatic Cooler Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Adiabatic Cooler Market, research methodology
  - FIG 2. Global Adiabatic Cooler Market, Market estimation techniques
  - FIG 3. Global Market size estimates & forecast methods
  - FIG 4. Global Adiabatic Cooler Market, key trends 2022
  - FIG 5. Global Adiabatic Cooler Market, growth prospects 2023-2030
  - FIG 6. Global Adiabatic Cooler Market, porters 5 force model
  - FIG 7. Global Adiabatic Cooler Market, pest analysis
  - FIG 8. Global Adiabatic Cooler Market, value chain analysis
  - FIG 9. Global Adiabatic Cooler Market by segment, 2020 & 2030 (USD Billion)
  - FIG 10. Global Adiabatic Cooler Market by segment, 2020 & 2030 (USD Billion)
  - FIG 11. Global Adiabatic Cooler Market by segment, 2020 & 2030 (USD Billion)
  - FIG 12. Global Adiabatic Cooler Market by segment, 2020 & 2030 (USD Billion)
  - FIG 13. Global Adiabatic Cooler Market by segment, 2020 & 2030 (USD Billion)
  - FIG 14. Global Adiabatic Cooler Market, regional snapshot 2020 & 2030
  - FIG 15. North America Adiabatic Cooler Market 2020 & 2030 (USD Billion)
  - FIG 16. Europe Adiabatic Cooler Market 2020 & 2030 (USD Billion)
  - FIG 17. Asia pacific Adiabatic Cooler Market 2020 & 2030 (USD Billion)
  - FIG 18. Latin America Adiabatic Cooler Market 2020 & 2030 (USD Billion)
  - FIG 19. Middle East & Africa Adiabatic Cooler Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable



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