

Global Direct Air Cooling System Market Research Report 2026(Status and Outlook)

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Abstracts

The direct air cooling system is that the exhaust steam of the steam turbine is sent to the air-cooled condenser arranged outdoors through the thick exhaust steam pipe. Condensate is pumped back to the recuperation system of the turbine. The demand for data centers has been increasing rapidly due to the rise of cloud computing, big data, and other data-intensive applications. Direct air cooling systems are commonly used in data centers to provide efficient and cost-effective cooling for servers and IT equipment. With the growth of edge computing and the need to bring computing resources closer to end-users, edge data centers have been on the rise. Direct air cooling systems are well-suited for these smaller data centers located at the edge of the network due to their simplicity and lower installation costs.

The global Direct Air Cooling System market size was estimated at USD 2972.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Direct Air Cooling System market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Direct Air Cooling System market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Direct Air Cooling System market.

Global Direct Air Cooling System Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Lennox International
Hamon
Paharpur
Daikin Industries
Trane Technologies
Rittal
Lanpec Technologies Limited
Johnson Controls
Stellar Energy
Kelvion
Frigel
Vestas aircoil
Hanon Systems

Thermal Dynamics

Market Segmentation (by Type)

Single Row of Pipes

Double Rows of Pipes

Three Rows of Pipes

Market Segmentation (by Application)

Power Plant

Water Treatment Industry

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Direct Air Cooling System Market

Overview of the regional outlook of the Direct Air Cooling System Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Direct Air Cooling System Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Direct Air Cooling System, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail,

including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Direct Air Cooling System

1.2 Key Market Segments

1.2.1 Direct Air Cooling System Segment by Type

1.2.2 Direct Air Cooling System Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 DIRECT AIR COOLING SYSTEM MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Direct Air Cooling System Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Direct Air Cooling System Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 DIRECT AIR COOLING SYSTEM MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Direct Air Cooling System Product Life Cycle

3.3 Global Direct Air Cooling System Sales by Manufacturers (2020-2025)

3.4 Global Direct Air Cooling System Revenue Market Share by Manufacturers (2020-2025)

3.5 Direct Air Cooling System Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Direct Air Cooling System Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Direct Air Cooling System Market Competitive Situation and Trends

3.8.1 Direct Air Cooling System Market Concentration Rate

3.8.2 Global 5 and 10 Largest Direct Air Cooling System Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 DIRECT AIR COOLING SYSTEM INDUSTRY CHAIN ANALYSIS

4.1 Direct Air Cooling System Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF DIRECT AIR COOLING SYSTEM MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Direct Air Cooling System Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Direct Air Cooling System Market

5.7 ESG Ratings of Leading Companies

6 DIRECT AIR COOLING SYSTEM MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Direct Air Cooling System Sales Market Share by Type (2020-2025)

6.3 Global Direct Air Cooling System Market Size by Type (2020-2025)

6.4 Global Direct Air Cooling System Price by Type (2020-2025)

7 DIRECT AIR COOLING SYSTEM MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Direct Air Cooling System Market Sales by Application (2020-2025)
- 7.3 Global Direct Air Cooling System Market Size (M USD) by Application (2020-2025)
- 7.4 Global Direct Air Cooling System Sales Growth Rate by Application (2020-2025)

8 DIRECT AIR COOLING SYSTEM MARKET SALES BY REGION

- 8.1 Global Direct Air Cooling System Sales by Region
 - 8.1.1 Global Direct Air Cooling System Sales by Region
 - 8.1.2 Global Direct Air Cooling System Sales Market Share by Region
- 8.2 Global Direct Air Cooling System Market Size by Region
 - 8.2.1 Global Direct Air Cooling System Market Size by Region
 - 8.2.2 Global Direct Air Cooling System Market Size by Region
- 8.3 North America
 - 8.3.1 North America Direct Air Cooling System Sales by Country
 - 8.3.2 North America Direct Air Cooling System Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Direct Air Cooling System Sales by Country
 - 8.4.2 Europe Direct Air Cooling System Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Direct Air Cooling System Sales by Region
 - 8.5.2 Asia Pacific Direct Air Cooling System Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Direct Air Cooling System Sales by Country
 - 8.6.2 South America Direct Air Cooling System Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Direct Air Cooling System Sales by Region

8.7.2 Middle East and Africa Direct Air Cooling System Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 DIRECT AIR COOLING SYSTEM MARKET PRODUCTION BY REGION

9.1 Global Production of Direct Air Cooling System by Region(2020-2025)

9.2 Global Direct Air Cooling System Revenue Market Share by Region (2020-2025)

9.3 Global Direct Air Cooling System Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Direct Air Cooling System Production

9.4.1 North America Direct Air Cooling System Production Growth Rate (2020-2025)

9.4.2 North America Direct Air Cooling System Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Direct Air Cooling System Production

9.5.1 Europe Direct Air Cooling System Production Growth Rate (2020-2025)

9.5.2 Europe Direct Air Cooling System Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Direct Air Cooling System Production (2020-2025)

9.6.1 Japan Direct Air Cooling System Production Growth Rate (2020-2025)

9.6.2 Japan Direct Air Cooling System Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Direct Air Cooling System Production (2020-2025)

9.7.1 China Direct Air Cooling System Production Growth Rate (2020-2025)

9.7.2 China Direct Air Cooling System Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Lennox International

10.1.1 Lennox International Basic Information

- 10.1.2 Lennox International Direct Air Cooling System Product Overview
- 10.1.3 Lennox International Direct Air Cooling System Product Market Performance
- 10.1.4 Lennox International Business Overview
- 10.1.5 Lennox International SWOT Analysis
- 10.1.6 Lennox International Recent Developments
- 10.2 Hamon
 - 10.2.1 Hamon Basic Information
 - 10.2.2 Hamon Direct Air Cooling System Product Overview
 - 10.2.3 Hamon Direct Air Cooling System Product Market Performance
 - 10.2.4 Hamon Business Overview
 - 10.2.5 Hamon SWOT Analysis
 - 10.2.6 Hamon Recent Developments
- 10.3 Paharpur
 - 10.3.1 Paharpur Basic Information
 - 10.3.2 Paharpur Direct Air Cooling System Product Overview
 - 10.3.3 Paharpur Direct Air Cooling System Product Market Performance
 - 10.3.4 Paharpur Business Overview
 - 10.3.5 Paharpur SWOT Analysis
 - 10.3.6 Paharpur Recent Developments
- 10.4 Daikin Industries
 - 10.4.1 Daikin Industries Basic Information
 - 10.4.2 Daikin Industries Direct Air Cooling System Product Overview
 - 10.4.3 Daikin Industries Direct Air Cooling System Product Market Performance
 - 10.4.4 Daikin Industries Business Overview
 - 10.4.5 Daikin Industries Recent Developments
- 10.5 Trane Technologies
 - 10.5.1 Trane Technologies Basic Information
 - 10.5.2 Trane Technologies Direct Air Cooling System Product Overview
 - 10.5.3 Trane Technologies Direct Air Cooling System Product Market Performance
 - 10.5.4 Trane Technologies Business Overview
 - 10.5.5 Trane Technologies Recent Developments
- 10.6 Rittal
 - 10.6.1 Rittal Basic Information
 - 10.6.2 Rittal Direct Air Cooling System Product Overview
 - 10.6.3 Rittal Direct Air Cooling System Product Market Performance
 - 10.6.4 Rittal Business Overview
 - 10.6.5 Rittal Recent Developments
- 10.7 Lanpec Technologies Limited
 - 10.7.1 Lanpec Technologies Limited Basic Information

- 10.7.2 Lanpec Technologies Limited Direct Air Cooling System Product Overview
- 10.7.3 Lanpec Technologies Limited Direct Air Cooling System Product Market Performance
- 10.7.4 Lanpec Technologies Limited Business Overview
- 10.7.5 Lanpec Technologies Limited Recent Developments
- 10.8 Johnson Controls
 - 10.8.1 Johnson Controls Basic Information
 - 10.8.2 Johnson Controls Direct Air Cooling System Product Overview
 - 10.8.3 Johnson Controls Direct Air Cooling System Product Market Performance
 - 10.8.4 Johnson Controls Business Overview
 - 10.8.5 Johnson Controls Recent Developments
- 10.9 Stellar Energy
 - 10.9.1 Stellar Energy Basic Information
 - 10.9.2 Stellar Energy Direct Air Cooling System Product Overview
 - 10.9.3 Stellar Energy Direct Air Cooling System Product Market Performance
 - 10.9.4 Stellar Energy Business Overview
 - 10.9.5 Stellar Energy Recent Developments
- 10.10 Kelvion
 - 10.10.1 Kelvion Basic Information
 - 10.10.2 Kelvion Direct Air Cooling System Product Overview
 - 10.10.3 Kelvion Direct Air Cooling System Product Market Performance
 - 10.10.4 Kelvion Business Overview
 - 10.10.5 Kelvion Recent Developments
- 10.11 Frigel
 - 10.11.1 Frigel Basic Information
 - 10.11.2 Frigel Direct Air Cooling System Product Overview
 - 10.11.3 Frigel Direct Air Cooling System Product Market Performance
 - 10.11.4 Frigel Business Overview
 - 10.11.5 Frigel Recent Developments
- 10.12 Vestas aircoil
 - 10.12.1 Vestas aircoil Basic Information
 - 10.12.2 Vestas aircoil Direct Air Cooling System Product Overview
 - 10.12.3 Vestas aircoil Direct Air Cooling System Product Market Performance
 - 10.12.4 Vestas aircoil Business Overview
 - 10.12.5 Vestas aircoil Recent Developments
- 10.13 Hanon Systems
 - 10.13.1 Hanon Systems Basic Information
 - 10.13.2 Hanon Systems Direct Air Cooling System Product Overview
 - 10.13.3 Hanon Systems Direct Air Cooling System Product Market Performance

- 10.13.4 Hanon Systems Business Overview
- 10.13.5 Hanon Systems Recent Developments
- 10.14 Thermal Dynamics
 - 10.14.1 Thermal Dynamics Basic Information
 - 10.14.2 Thermal Dynamics Direct Air Cooling System Product Overview
 - 10.14.3 Thermal Dynamics Direct Air Cooling System Product Market Performance
 - 10.14.4 Thermal Dynamics Business Overview
 - 10.14.5 Thermal Dynamics Recent Developments

11 DIRECT AIR COOLING SYSTEM MARKET FORECAST BY REGION

- 11.1 Global Direct Air Cooling System Market Size Forecast
- 11.2 Global Direct Air Cooling System Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Direct Air Cooling System Market Size Forecast by Country
 - 11.2.3 Asia Pacific Direct Air Cooling System Market Size Forecast by Region
 - 11.2.4 South America Direct Air Cooling System Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Direct Air Cooling System by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Direct Air Cooling System Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Direct Air Cooling System by Type (2026-2035)
 - 12.1.2 Global Direct Air Cooling System Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Direct Air Cooling System by Type (2026-2035)
- 12.2 Global Direct Air Cooling System Market Forecast by Application (2026-2035)
 - 12.2.1 Global Direct Air Cooling System Sales (K Units) Forecast by Application
 - 12.2.2 Global Direct Air Cooling System Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Direct Air Cooling System Market Size by Type (M USD)

Table 4. Global Direct Air Cooling System Market Size by Application

Table 5. Direct Air Cooling System Market Size Comparison by Region (M USD)

Table 6. Global Direct Air Cooling System Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Direct Air Cooling System Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Direct Air Cooling System Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Direct Air Cooling System Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Direct Air Cooling System as of 2025)

Table 11. Global Market Direct Air Cooling System Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Direct Air Cooling System Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Direct Air Cooling System Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Direct Air Cooling System Sales by Type (K Units)

Table 27. Global Direct Air Cooling System Market Size by Type (M USD)

Table 28. Global Direct Air Cooling System Sales (K Units) by Type (2020-2025)
Table 29. Global Direct Air Cooling System Sales Market Share by Type (2020-2025)
Table 30. Global Direct Air Cooling System Market Size (M USD) by Type (2020-2025)
Table 31. Global Direct Air Cooling System Market Share by Type (2020-2025)
Table 32. Global Direct Air Cooling System Price (USD/Unit) by Type (2020-2025)
Table 33. Global Direct Air Cooling System Sales (K Units) by Application
Table 34. Global Direct Air Cooling System Market Size by Application
Table 35. Global Direct Air Cooling System Sales by Application (2020-2025) & (K Units)
Table 36. Global Direct Air Cooling System Sales Market Share by Application (2020-2025)
Table 37. Global Direct Air Cooling System Market Size by Application (2020-2025) & (M USD)
Table 38. Global Direct Air Cooling System Market Share by Application (2020-2025)
Table 39. Global Direct Air Cooling System Sales Growth Rate by Application (2020-2025)
Table 40. Global Direct Air Cooling System Sales by Region (2020-2025) & (K Units)
Table 41. Global Direct Air Cooling System Sales Market Share by Region (2020-2025)
Table 42. Global Direct Air Cooling System Market Size by Region (2020-2025) & (M USD)
Table 43. Global Direct Air Cooling System Market Size by Region (2020-2025)
Table 44. North America Direct Air Cooling System Sales by Country (2020-2025) & (K Units)
Table 45. North America Direct Air Cooling System Market Size by Country (2020-2025) & (M USD)
Table 46. Europe Direct Air Cooling System Sales by Country (2020-2025) & (K Units)
Table 47. Europe Direct Air Cooling System Market Size by Country (2020-2025) & (M USD)
Table 48. Asia Pacific Direct Air Cooling System Sales by Region (2020-2025) & (K Units)
Table 49. Asia Pacific Direct Air Cooling System Market Size by Region (2020-2025) & (M USD)
Table 50. South America Direct Air Cooling System Sales by Country (2020-2025) & (K Units)
Table 51. South America Direct Air Cooling System Market Size by Country (2020-2025) & (M USD)
Table 52. Middle East and Africa Direct Air Cooling System Sales by Region (2020-2025) & (K Units)
Table 53. Middle East and Africa Direct Air Cooling System Market Size by Region

(2020-2025) & (M USD)

Table 54. Global Direct Air Cooling System Production (K Units) by Region(2020-2025)

Table 55. Global Direct Air Cooling System Revenue (US\$ Million) by Region
(2020-2025)

Table 56. Global Direct Air Cooling System Revenue Market Share by Region
(2020-2025)

Table 57. Global Direct Air Cooling System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Direct Air Cooling System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Direct Air Cooling System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Direct Air Cooling System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Direct Air Cooling System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Lennox International Basic Information

Table 63. Lennox International Direct Air Cooling System Product Overview

Table 64. Lennox International Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Lennox International Business Overview

Table 66. Lennox International SWOT Analysis

Table 67. Lennox International Recent Developments

Table 68. Hamon Basic Information

Table 69. Hamon Direct Air Cooling System Product Overview

Table 70. Hamon Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Hamon Business Overview

Table 72. Hamon SWOT Analysis

Table 73. Hamon Recent Developments

Table 74. Paharpur Basic Information

Table 75. Paharpur Direct Air Cooling System Product Overview

Table 76. Paharpur Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Paharpur Business Overview

Table 78. Paharpur SWOT Analysis

Table 79. Paharpur Recent Developments

Table 80. Daikin Industries Basic Information

Table 81. Daikin Industries Direct Air Cooling System Product Overview

Table 82. Daikin Industries Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Daikin Industries Business Overview

Table 84. Daikin Industries Recent Developments

Table 85. Trane Technologies Basic Information

Table 86. Trane Technologies Direct Air Cooling System Product Overview

Table 87. Trane Technologies Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Trane Technologies Business Overview

Table 89. Trane Technologies Recent Developments

Table 90. Rittal Basic Information

Table 91. Rittal Direct Air Cooling System Product Overview

Table 92. Rittal Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Rittal Business Overview

Table 94. Rittal Recent Developments

Table 95. Lanpec Technologies Limited Basic Information

Table 96. Lanpec Technologies Limited Direct Air Cooling System Product Overview

Table 97. Lanpec Technologies Limited Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Lanpec Technologies Limited Business Overview

Table 99. Lanpec Technologies Limited Recent Developments

Table 100. Johnson Controls Basic Information

Table 101. Johnson Controls Direct Air Cooling System Product Overview

Table 102. Johnson Controls Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Johnson Controls Business Overview

Table 104. Johnson Controls Recent Developments

Table 105. Stellar Energy Basic Information

Table 106. Stellar Energy Direct Air Cooling System Product Overview

Table 107. Stellar Energy Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Stellar Energy Business Overview

Table 109. Stellar Energy Recent Developments

Table 110. Kelvion Basic Information

Table 111. Kelvion Direct Air Cooling System Product Overview

Table 112. Kelvion Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Kelvion Business Overview

Table 114. Kelvion Recent Developments
Table 115. Frigel Basic Information
Table 116. Frigel Direct Air Cooling System Product Overview
Table 117. Frigel Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. Frigel Business Overview
Table 119. Frigel Recent Developments
Table 120. Vestas aircoil Basic Information
Table 121. Vestas aircoil Direct Air Cooling System Product Overview
Table 122. Vestas aircoil Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 123. Vestas aircoil Business Overview
Table 124. Vestas aircoil Recent Developments
Table 125. Hanon Systems Basic Information
Table 126. Hanon Systems Direct Air Cooling System Product Overview
Table 127. Hanon Systems Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 128. Hanon Systems Business Overview
Table 129. Hanon Systems Recent Developments
Table 130. Thermal Dynamics Basic Information
Table 131. Thermal Dynamics Direct Air Cooling System Product Overview
Table 132. Thermal Dynamics Direct Air Cooling System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 133. Thermal Dynamics Business Overview
Table 134. Thermal Dynamics Recent Developments
Table 135. Global Direct Air Cooling System Sales Forecast by Region (2026-2035) & (K Units)
Table 136. Global Direct Air Cooling System Market Size Forecast by Region (2026-2035) & (M USD)
Table 137. North America Direct Air Cooling System Sales Forecast by Country (2026-2035) & (K Units)
Table 138. North America Direct Air Cooling System Market Size Forecast by Country (2026-2035) & (M USD)
Table 139. Europe Direct Air Cooling System Sales Forecast by Country (2026-2035) & (K Units)
Table 140. Europe Direct Air Cooling System Market Size Forecast by Country (2026-2035) & (M USD)
Table 141. Asia Pacific Direct Air Cooling System Sales Forecast by Region (2026-2035) & (K Units)

Table 142. Asia Pacific Direct Air Cooling System Market Size Forecast by Region (2026-2035) & (M USD)

Table 143. South America Direct Air Cooling System Sales Forecast by Country (2026-2035) & (K Units)

Table 144. South America Direct Air Cooling System Market Size Forecast by Country (2026-2035) & (M USD)

Table 145. Middle East and Africa Direct Air Cooling System Sales Forecast by Country (2026-2035) & (Units)

Table 146. Middle East and Africa Direct Air Cooling System Market Size Forecast by Country (2026-2035) & (M USD)

Table 147. Global Direct Air Cooling System Sales Forecast by Type (2026-2035) & (K Units)

Table 148. Global Direct Air Cooling System Market Size Forecast by Type (2026-2035) & (M USD)

Table 149. Global Direct Air Cooling System Price Forecast by Type (2026-2035) & (USD/Unit)

Table 150. Global Direct Air Cooling System Sales (K Units) Forecast by Application (2026-2035)

Table 151. Global Direct Air Cooling System Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Direct Air Cooling System
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Direct Air Cooling System Market Size (M USD), 2025-2035
- Figure 5. Global Direct Air Cooling System Market Size (M USD) (2020-2035)
- Figure 6. Global Direct Air Cooling System Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Direct Air Cooling System Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Direct Air Cooling System Product Life Cycle
- Figure 13. Direct Air Cooling System Sales Share by Manufacturers in 2025
- Figure 14. Global Direct Air Cooling System Revenue Share by Manufacturers in 2025
- Figure 15. Direct Air Cooling System Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Direct Air Cooling System Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Direct Air Cooling System Revenue in 2025
- Figure 18. Industry Chain Map of Direct Air Cooling System
- Figure 19. Global Direct Air Cooling System Market PEST Analysis
- Figure 20. Global Direct Air Cooling System Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Direct Air Cooling System Market Share by Type
- Figure 27. Sales Market Share of Direct Air Cooling System by Type (2020-2025)
- Figure 28. Sales Market Share of Direct Air Cooling System by Type in 2025
- Figure 29. Market Share of Direct Air Cooling System by Type (2020-2025)
- Figure 30. Market Share of Direct Air Cooling System by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Direct Air Cooling System Market Share by Application

Figure 33. Global Direct Air Cooling System Sales Market Share by Application (2020-2025)

Figure 34. Global Direct Air Cooling System Sales Market Share by Application in 2025

Figure 35. Global Direct Air Cooling System Market Share by Application (2020-2025)

Figure 36. Global Direct Air Cooling System Market Share by Application in 2025

Figure 37. Global Direct Air Cooling System Sales Growth Rate by Application (2020-2025)

Figure 38. Global Direct Air Cooling System Sales Market Share by Region (2020-2025)

Figure 39. Global Direct Air Cooling System Market Size by Region (2020-2025)

Figure 40. North America Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Direct Air Cooling System Sales Market Share by Country in 2024

Figure 43. North America Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Direct Air Cooling System Market Size by Country in 2024

Figure 45. U.S. Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Direct Air Cooling System Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Direct Air Cooling System Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Direct Air Cooling System Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Direct Air Cooling System Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Direct Air Cooling System Sales Market Share by Country in 2024

Figure 53. Europe Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Direct Air Cooling System Market Size by Country in 2024

Figure 55. Germany Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Direct Air Cooling System Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 57. France Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Direct Air Cooling System Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Direct Air Cooling System Sales Market Share by Region in 2024

Figure 67. Asia Pacific Direct Air Cooling System Market Size by Region in 2024

Figure 68. China Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Direct Air Cooling System Sales and Growth Rate (K Units)

Figure 79. South America Direct Air Cooling System Sales Market Share by Country in 2024

Figure 80. South America Direct Air Cooling System Market Size and Growth Rate (M USD)

Figure 81. South America Direct Air Cooling System Market Size by Country in 2024

Figure 82. Brazil Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Direct Air Cooling System Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Direct Air Cooling System Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Direct Air Cooling System Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Direct Air Cooling System Market Size by Region in 2024

Figure 92. Saudi Arabia Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Direct Air Cooling System Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 98. Nigeria Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Direct Air Cooling System Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Direct Air Cooling System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Direct Air Cooling System Production Market Share by Region (2020-2025)

Figure 103. North America Direct Air Cooling System Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Direct Air Cooling System Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Direct Air Cooling System Production (K Units) Growth Rate (2020-2025)

Figure 106. China Direct Air Cooling System Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Direct Air Cooling System Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Direct Air Cooling System Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Direct Air Cooling System Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Direct Air Cooling System Market Share Forecast by Type (2026-2035)

Figure 111. Global Direct Air Cooling System Sales Forecast by Application (2026-2035)

Figure 112. Global Direct Air Cooling System Market Share Forecast by Application (2026-2035)

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