

Global Cooling Water Circulation Device Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G61B875E3CB9EN.html>

Date: December 2025

Pages: 118

Price: US\$ 4,480.00 (Single User License)

ID: G61B875E3CB9EN

Abstracts

The global Cooling Water Circulation Device market size is expected to reach \$ 1617 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global sales of cooling water circulation devices reached 1.2 million units, with an average selling price of US\$850 per unit. Cooling water circulation devices are industrial and commercial temperature control equipment that achieves continuous heat transfer from equipment or processes through water pumps and heat exchange systems. They are widely used in machine tool processing, data centers, chemical reactions, medical imaging, and new energy systems. The global total production capacity is approximately 1.5 million units per year, with an average gross profit margin of about 32%. The main upstream raw materials are copper tubes, aluminum fins, and steel, accounting for 45% of the cost, compressors 15%, water pumps 10%, electronic components 8%, refrigerants 5%, and others 17%. Downstream consumption is approximately 40% in industrial manufacturing, 20% in data centers, 15% in chemicals, 10% in medical, 10% in new energy, and 5% in others. Products are supplied to end users through equipment integrators and engineering companies. The future lies in high-efficiency frequency conversion, environmentally friendly refrigerants, modular integration, intelligent remote operation and maintenance, and leasing service models. With increasingly stringent energy conservation and emission reduction policies, the construction of digital infrastructure, and the upgrading of high-end manufacturing, market demand is steadily increasing, and there are significant business opportunities in the field of mid-to-high-end energy-saving and customized systems.

The cooling water circulation system market is currently experiencing steady growth and structural upgrades. Increased demand for manufacturing automation, high-end machine tools, and precision machining is deepening the reliance on stable temperature control and continuous operation for equipment, driving rigid demand for small-to-

medium power standard models. Meanwhile, emerging applications such as new energy, battery production lines, and semiconductors are driving the volume of high-precision, high-reliability products, evolving the market from 'general-purpose' to 'specialized and system-oriented.'

From the application perspective, the rapid construction of data centers, energy storage systems, and charging/swapping facilities has become the most rapidly growing segment in recent years, placing demands on cooling water circulation systems for high energy efficiency, 24-hour operation, and intelligent monitoring. This is prompting manufacturers to strengthen their deployment of variable frequency control, redundant design, and remote operation and maintenance capabilities, gradually shifting products from single-unit sales to integrated 'equipment + service' solutions.

On the supply side, industry competition is shifting from price-driven to technology and brand-driven. Leading companies are consolidating their advantages through large-scale manufacturing, self-manufacturing of core components, and channel coverage, while small and medium-sized manufacturers are seeking survival through customized solutions for specific scenarios, rapid delivery, and localized services. Overall, the market exhibits a pattern of slow but still relatively fragmented concentration.

Policy and cost factors also profoundly influence market trends. Stricter energy efficiency standards and the replacement of outdated refrigerants with environmentally friendly ones are accelerating the elimination of outdated production capacity, forcing companies to iterate their products. Meanwhile, fluctuations in raw material prices such as copper and aluminum are making companies more focused on supply chain management and cost control; manufacturers with comprehensive manufacturing and procurement capabilities are more resilient to risks.

Overall, the cooling water circulation system market will maintain moderate growth, with core opportunities concentrated in high-efficiency energy saving, intelligent control, modular systems, and supporting areas for new energy and digital infrastructure. Future competition will shift from single-equipment performance to system integration capabilities and full lifecycle service capabilities; companies with technological accumulation and deep industry experience are more likely to continue to benefit.

This report studies the global Cooling Water Circulation Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cooling Water Circulation Device and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Cooling Water Circulation Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cooling Water Circulation Device total production and demand, 2021-2032, (K

Units)

Global Cooling Water Circulation Device total production value, 2021-2032, (USD Million)

Global Cooling Water Circulation Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Cooling Water Circulation Device consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Cooling Water Circulation Device domestic production, consumption, key domestic manufacturers and share

Global Cooling Water Circulation Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Cooling Water Circulation Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Cooling Water Circulation Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Cooling Water Circulation Device market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LAUDA, ORION MACHINERY CO., LTD., Infitek, Yamato Scientific Co.,Ltd., Longhua Technology Group (Luoyang) Company Limited, Panasonic, Ferrotec, LABOAO, HCP PUMP, Better Technology Group Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cooling Water Circulation Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Cooling Water Circulation Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cooling Water Circulation Device Market, Segmentation by Type:

Air-cooled Chiller

Water-cooled Chiller

Water-to-water Heat Exchanger

Compressed Air Refrigeration

Semiconductor (Thermoelectric) Refrigeration

Global Cooling Water Circulation Device Market, Segmentation by System Structure:

Integrated/Box-type

Separate Type

Modular Combination Type

Others

Global Cooling Water Circulation Device Market, Segmentation by Cooling Capacity Range:

Cooling Capacity Range: 0.1 KW - 5 KW

Cooling Capacity Range: 5 KW - 50 KW

Others

Global Cooling Water Circulation Device Market, Segmentation by Application:

Electricity

Chemicals

Food

Others

Companies Profiled:

LAUDA

ORION MACHINERY CO., LTD.

Infitek

Yamato Scientific Co.,Ltd.

Longhua Technology Group (Luoyang) Company Limited

Panasonic

Ferrotec

LABOAO

HCP PUMP

Better Technology Group Limited

EYELA

PiovanGroup

LabTech

Bohle AG

Key Questions Answered:

1. How big is the global Cooling Water Circulation Device market?
2. What is the demand of the global Cooling Water Circulation Device market?
3. What is the year over year growth of the global Cooling Water Circulation Device market?
4. What is the production and production value of the global Cooling Water Circulation Device market?
5. Who are the key producers in the global Cooling Water Circulation Device market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Cooling Water Circulation Device Introduction
- 1.2 World Cooling Water Circulation Device Supply & Forecast
 - 1.2.1 World Cooling Water Circulation Device Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Cooling Water Circulation Device Production (2021-2032)
 - 1.2.3 World Cooling Water Circulation Device Pricing Trends (2021-2032)
- 1.3 World Cooling Water Circulation Device Production by Region (Based on Production Site)
 - 1.3.1 World Cooling Water Circulation Device Production Value by Region (2021-2032)
 - 1.3.2 World Cooling Water Circulation Device Production by Region (2021-2032)
 - 1.3.3 World Cooling Water Circulation Device Average Price by Region (2021-2032)
 - 1.3.4 North America Cooling Water Circulation Device Production (2021-2032)
 - 1.3.5 Europe Cooling Water Circulation Device Production (2021-2032)
 - 1.3.6 China Cooling Water Circulation Device Production (2021-2032)
 - 1.3.7 Japan Cooling Water Circulation Device Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Cooling Water Circulation Device Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Cooling Water Circulation Device Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Cooling Water Circulation Device Demand (2021-2032)
- 2.2 World Cooling Water Circulation Device Consumption by Region
 - 2.2.1 World Cooling Water Circulation Device Consumption by Region (2021-2026)
 - 2.2.2 World Cooling Water Circulation Device Consumption Forecast by Region (2027-2032)
- 2.3 United States Cooling Water Circulation Device Consumption (2021-2032)
- 2.4 China Cooling Water Circulation Device Consumption (2021-2032)
- 2.5 Europe Cooling Water Circulation Device Consumption (2021-2032)
- 2.6 Japan Cooling Water Circulation Device Consumption (2021-2032)
- 2.7 South Korea Cooling Water Circulation Device Consumption (2021-2032)
- 2.8 ASEAN Cooling Water Circulation Device Consumption (2021-2032)
- 2.9 India Cooling Water Circulation Device Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Cooling Water Circulation Device Production Value by Manufacturer (2021-2026)

3.2 World Cooling Water Circulation Device Production by Manufacturer (2021-2026)

3.3 World Cooling Water Circulation Device Average Price by Manufacturer (2021-2026)

3.4 Cooling Water Circulation Device Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Cooling Water Circulation Device Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Cooling Water Circulation Device in 2025

3.5.3 Global Concentration Ratios (CR8) for Cooling Water Circulation Device in 2025

3.6 Cooling Water Circulation Device Market: Overall Company Footprint Analysis

3.6.1 Cooling Water Circulation Device Market: Region Footprint

3.6.2 Cooling Water Circulation Device Market: Company Product Type Footprint

3.6.3 Cooling Water Circulation Device Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Cooling Water Circulation Device Production Value Comparison

4.1.1 United States VS China: Cooling Water Circulation Device Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Cooling Water Circulation Device Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Cooling Water Circulation Device Production Comparison

4.2.1 United States VS China: Cooling Water Circulation Device Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Cooling Water Circulation Device Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Cooling Water Circulation Device Consumption Comparison

4.3.1 United States VS China: Cooling Water Circulation Device Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Cooling Water Circulation Device Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Cooling Water Circulation Device Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Cooling Water Circulation Device Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Cooling Water Circulation Device Production Value (2021-2026)

4.4.3 United States Based Manufacturers Cooling Water Circulation Device Production (2021-2026)

4.5 China Based Cooling Water Circulation Device Manufacturers and Market Share

4.5.1 China Based Cooling Water Circulation Device Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Cooling Water Circulation Device Production Value (2021-2026)

4.5.3 China Based Manufacturers Cooling Water Circulation Device Production (2021-2026)

4.6 Rest of World Based Cooling Water Circulation Device Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Cooling Water Circulation Device Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Cooling Water Circulation Device Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Cooling Water Circulation Device Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Cooling Water Circulation Device Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Air-cooled Chiller

5.2.2 Water-cooled Chiller

5.2.3 Water-to-water Heat Exchanger

5.2.4 Compressed Air Refrigeration

5.2.5 Semiconductor (Thermoelectric) Refrigeration

5.3 Market Segment by Type

- 5.3.1 World Cooling Water Circulation Device Production by Type (2021-2032)
- 5.3.2 World Cooling Water Circulation Device Production Value by Type (2021-2032)
- 5.3.3 World Cooling Water Circulation Device Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SYSTEM STRUCTURE

- 6.1 World Cooling Water Circulation Device Market Size Overview by System Structure: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by System Structure
 - 6.2.1 Integrated/Box-type
 - 6.2.2 Separate Type
 - 6.2.3 Modular Combination Type
 - 6.2.4 Others
- 6.3 Market Segment by System Structure
 - 6.3.1 World Cooling Water Circulation Device Production by System Structure (2021-2032)
 - 6.3.2 World Cooling Water Circulation Device Production Value by System Structure (2021-2032)
 - 6.3.3 World Cooling Water Circulation Device Average Price by System Structure (2021-2032)

7 MARKET ANALYSIS BY COOLING CAPACITY RANGE

- 7.1 World Cooling Water Circulation Device Market Size Overview by Cooling Capacity Range: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Cooling Capacity Range
 - 7.2.1 Cooling Capacity Range: 0.1 KW - 5 KW
 - 7.2.2 Cooling Capacity Range: 5 KW - 50 KW
 - 7.2.3 Others
- 7.3 Market Segment by Cooling Capacity Range
 - 7.3.1 World Cooling Water Circulation Device Production by Cooling Capacity Range (2021-2032)
 - 7.3.2 World Cooling Water Circulation Device Production Value by Cooling Capacity Range (2021-2032)
 - 7.3.3 World Cooling Water Circulation Device Average Price by Cooling Capacity Range (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Cooling Water Circulation Device Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electricity

8.2.2 Chemicals

8.2.3 Food

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Cooling Water Circulation Device Production by Application (2021-2032)

8.3.2 World Cooling Water Circulation Device Production Value by Application (2021-2032)

8.3.3 World Cooling Water Circulation Device Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 LAUDA

9.1.1 LAUDA Details

9.1.2 LAUDA Major Business

9.1.3 LAUDA Cooling Water Circulation Device Product and Services

9.1.4 LAUDA Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 LAUDA Recent Developments/Updates

9.1.6 LAUDA Competitive Strengths & Weaknesses

9.2 ORION MACHINERY CO., LTD.

9.2.1 ORION MACHINERY CO., LTD. Details

9.2.2 ORION MACHINERY CO., LTD. Major Business

9.2.3 ORION MACHINERY CO., LTD. Cooling Water Circulation Device Product and Services

9.2.4 ORION MACHINERY CO., LTD. Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ORION MACHINERY CO., LTD. Recent Developments/Updates

9.2.6 ORION MACHINERY CO., LTD. Competitive Strengths & Weaknesses

9.3 Infitek

9.3.1 Infitek Details

9.3.2 Infitek Major Business

9.3.3 Infitek Cooling Water Circulation Device Product and Services

9.3.4 Infitek Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.3.5 Infitek Recent Developments/Updates
- 9.3.6 Infitek Competitive Strengths & Weaknesses
- 9.4 Yamato Scientific Co.,Ltd.
 - 9.4.1 Yamato Scientific Co.,Ltd. Details
 - 9.4.2 Yamato Scientific Co.,Ltd. Major Business
 - 9.4.3 Yamato Scientific Co.,Ltd. Cooling Water Circulation Device Product and Services
 - 9.4.4 Yamato Scientific Co.,Ltd. Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Yamato Scientific Co.,Ltd. Recent Developments/Updates
 - 9.4.6 Yamato Scientific Co.,Ltd. Competitive Strengths & Weaknesses
- 9.5 Longhua Technology Group (Luoyang) Company Limited
 - 9.5.1 Longhua Technology Group (Luoyang) Company Limited Details
 - 9.5.2 Longhua Technology Group (Luoyang) Company Limited Major Business
 - 9.5.3 Longhua Technology Group (Luoyang) Company Limited Cooling Water Circulation Device Product and Services
 - 9.5.4 Longhua Technology Group (Luoyang) Company Limited Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Longhua Technology Group (Luoyang) Company Limited Recent Developments/Updates
 - 9.5.6 Longhua Technology Group (Luoyang) Company Limited Competitive Strengths & Weaknesses
- 9.6 Panasonic
 - 9.6.1 Panasonic Details
 - 9.6.2 Panasonic Major Business
 - 9.6.3 Panasonic Cooling Water Circulation Device Product and Services
 - 9.6.4 Panasonic Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Panasonic Recent Developments/Updates
 - 9.6.6 Panasonic Competitive Strengths & Weaknesses
- 9.7 Ferrotec
 - 9.7.1 Ferrotec Details
 - 9.7.2 Ferrotec Major Business
 - 9.7.3 Ferrotec Cooling Water Circulation Device Product and Services
 - 9.7.4 Ferrotec Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ferrotec Recent Developments/Updates
 - 9.7.6 Ferrotec Competitive Strengths & Weaknesses

9.8 LABOAO

9.8.1 LABOAO Details

9.8.2 LABOAO Major Business

9.8.3 LABOAO Cooling Water Circulation Device Product and Services

9.8.4 LABOAO Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 LABOAO Recent Developments/Updates

9.8.6 LABOAO Competitive Strengths & Weaknesses

9.9 HCP PUMP

9.9.1 HCP PUMP Details

9.9.2 HCP PUMP Major Business

9.9.3 HCP PUMP Cooling Water Circulation Device Product and Services

9.9.4 HCP PUMP Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 HCP PUMP Recent Developments/Updates

9.9.6 HCP PUMP Competitive Strengths & Weaknesses

9.10 Better Technology Group Limited

9.10.1 Better Technology Group Limited Details

9.10.2 Better Technology Group Limited Major Business

9.10.3 Better Technology Group Limited Cooling Water Circulation Device Product and Services

9.10.4 Better Technology Group Limited Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Better Technology Group Limited Recent Developments/Updates

9.10.6 Better Technology Group Limited Competitive Strengths & Weaknesses

9.11 EYELA

9.11.1 EYELA Details

9.11.2 EYELA Major Business

9.11.3 EYELA Cooling Water Circulation Device Product and Services

9.11.4 EYELA Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 EYELA Recent Developments/Updates

9.11.6 EYELA Competitive Strengths & Weaknesses

9.12 PiovanGroup

9.12.1 PiovanGroup Details

9.12.2 PiovanGroup Major Business

9.12.3 PiovanGroup Cooling Water Circulation Device Product and Services

9.12.4 PiovanGroup Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.12.5 PivonGroup Recent Developments/Updates
- 9.12.6 PivonGroup Competitive Strengths & Weaknesses
- 9.13 LabTech
 - 9.13.1 LabTech Details
 - 9.13.2 LabTech Major Business
 - 9.13.3 LabTech Cooling Water Circulation Device Product and Services
 - 9.13.4 LabTech Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 LabTech Recent Developments/Updates
 - 9.13.6 LabTech Competitive Strengths & Weaknesses
- 9.14 Bohle AG
 - 9.14.1 Bohle AG Details
 - 9.14.2 Bohle AG Major Business
 - 9.14.3 Bohle AG Cooling Water Circulation Device Product and Services
 - 9.14.4 Bohle AG Cooling Water Circulation Device Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Bohle AG Recent Developments/Updates
 - 9.14.6 Bohle AG Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Cooling Water Circulation Device Industry Chain
- 10.2 Cooling Water Circulation Device Upstream Analysis
 - 10.2.1 Cooling Water Circulation Device Core Raw Materials
 - 10.2.2 Main Manufacturers of Cooling Water Circulation Device Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Cooling Water Circulation Device Production Mode
- 10.6 Cooling Water Circulation Device Procurement Model
- 10.7 Cooling Water Circulation Device Industry Sales Model and Sales Channels
 - 10.7.1 Cooling Water Circulation Device Sales Model
 - 10.7.2 Cooling Water Circulation Device Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Cooling Water Circulation Device Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Cooling Water Circulation Device Production Value by Region (2021-2026) & (USD Million)

Table 3. World Cooling Water Circulation Device Production Value by Region (2027-2032) & (USD Million)

Table 4. World Cooling Water Circulation Device Production Value Market Share by Region (2021-2026)

Table 5. World Cooling Water Circulation Device Production Value Market Share by Region (2027-2032)

Table 6. World Cooling Water Circulation Device Production by Region (2021-2026) & (K Units)

Table 7. World Cooling Water Circulation Device Production by Region (2027-2032) & (K Units)

Table 8. World Cooling Water Circulation Device Production Market Share by Region (2021-2026)

Table 9. World Cooling Water Circulation Device Production Market Share by Region (2027-2032)

Table 10. World Cooling Water Circulation Device Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Cooling Water Circulation Device Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Cooling Water Circulation Device Major Market Trends

Table 13. World Cooling Water Circulation Device Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Cooling Water Circulation Device Consumption by Region (2021-2026) & (K Units)

Table 15. World Cooling Water Circulation Device Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Cooling Water Circulation Device Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Cooling Water Circulation Device Producers in 2025

Table 18. World Cooling Water Circulation Device Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Cooling Water Circulation Device Producers in 2025

Table 20. World Cooling Water Circulation Device Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Cooling Water Circulation Device Company Evaluation Quadrant

Table 22. World Cooling Water Circulation Device Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Cooling Water Circulation Device Production Site of Key Manufacturer

Table 24. Cooling Water Circulation Device Market: Company Product Type Footprint

Table 25. Cooling Water Circulation Device Market: Company Product Application Footprint

Table 26. Cooling Water Circulation Device Competitive Factors

Table 27. Cooling Water Circulation Device New Entrant and Capacity Expansion Plans

Table 28. Cooling Water Circulation Device Mergers & Acquisitions Activity

Table 29. United States VS China Cooling Water Circulation Device Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Cooling Water Circulation Device Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Cooling Water Circulation Device Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Cooling Water Circulation Device Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Cooling Water Circulation Device Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Cooling Water Circulation Device Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Cooling Water Circulation Device Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Cooling Water Circulation Device Production Market Share (2021-2026)

Table 37. China Based Cooling Water Circulation Device Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Cooling Water Circulation Device Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Cooling Water Circulation Device Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Cooling Water Circulation Device Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Cooling Water Circulation Device Production Market Share (2021-2026)

Table 42. Rest of World Based Cooling Water Circulation Device Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Cooling Water Circulation Device Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Cooling Water Circulation Device Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Cooling Water Circulation Device Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Cooling Water Circulation Device Production Market Share (2021-2026)

Table 47. World Cooling Water Circulation Device Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Cooling Water Circulation Device Production by Type (2021-2026) & (K Units)

Table 49. World Cooling Water Circulation Device Production by Type (2027-2032) & (K Units)

Table 50. World Cooling Water Circulation Device Production Value by Type (2021-2026) & (USD Million)

Table 51. World Cooling Water Circulation Device Production Value by Type (2027-2032) & (USD Million)

Table 52. World Cooling Water Circulation Device Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Cooling Water Circulation Device Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Cooling Water Circulation Device Production Value by System Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Cooling Water Circulation Device Production by System Structure (2021-2026) & (K Units)

Table 56. World Cooling Water Circulation Device Production by System Structure (2027-2032) & (K Units)

Table 57. World Cooling Water Circulation Device Production Value by System Structure (2021-2026) & (USD Million)

Table 58. World Cooling Water Circulation Device Production Value by System Structure (2027-2032) & (USD Million)

Table 59. World Cooling Water Circulation Device Average Price by System Structure (2021-2026) & (US\$/Unit)

Table 60. World Cooling Water Circulation Device Average Price by System Structure

(2027-2032) & (US\$/Unit)

Table 61. World Cooling Water Circulation Device Production Value by Cooling Capacity Range, (USD Million), 2021 & 2025 & 2032

Table 62. World Cooling Water Circulation Device Production by Cooling Capacity Range (2021-2026) & (K Units)

Table 63. World Cooling Water Circulation Device Production by Cooling Capacity Range (2027-2032) & (K Units)

Table 64. World Cooling Water Circulation Device Production Value by Cooling Capacity Range (2021-2026) & (USD Million)

Table 65. World Cooling Water Circulation Device Production Value by Cooling Capacity Range (2027-2032) & (USD Million)

Table 66. World Cooling Water Circulation Device Average Price by Cooling Capacity Range (2021-2026) & (US\$/Unit)

Table 67. World Cooling Water Circulation Device Average Price by Cooling Capacity Range (2027-2032) & (US\$/Unit)

Table 68. World Cooling Water Circulation Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Cooling Water Circulation Device Production by Application (2021-2026) & (K Units)

Table 70. World Cooling Water Circulation Device Production by Application (2027-2032) & (K Units)

Table 71. World Cooling Water Circulation Device Production Value by Application (2021-2026) & (USD Million)

Table 72. World Cooling Water Circulation Device Production Value by Application (2027-2032) & (USD Million)

Table 73. World Cooling Water Circulation Device Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Cooling Water Circulation Device Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. LAUDA Basic Information, Manufacturing Base and Competitors

Table 76. LAUDA Major Business

Table 77. LAUDA Cooling Water Circulation Device Product and Services

Table 78. LAUDA Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. LAUDA Recent Developments/Updates

Table 80. LAUDA Competitive Strengths & Weaknesses

Table 81. ORION MACHINERY CO., LTD. Basic Information, Manufacturing Base and Competitors

Table 82. ORION MACHINERY CO., LTD. Major Business

Table 83. ORION MACHINERY CO., LTD. Cooling Water Circulation Device Product and Services

Table 84. ORION MACHINERY CO., LTD. Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ORION MACHINERY CO., LTD. Recent Developments/Updates

Table 86. ORION MACHINERY CO., LTD. Competitive Strengths & Weaknesses

Table 87. Infitek Basic Information, Manufacturing Base and Competitors

Table 88. Infitek Major Business

Table 89. Infitek Cooling Water Circulation Device Product and Services

Table 90. Infitek Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Infitek Recent Developments/Updates

Table 92. Infitek Competitive Strengths & Weaknesses

Table 93. Yamato Scientific Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Yamato Scientific Co.,Ltd. Major Business

Table 95. Yamato Scientific Co.,Ltd. Cooling Water Circulation Device Product and Services

Table 96. Yamato Scientific Co.,Ltd. Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Yamato Scientific Co.,Ltd. Recent Developments/Updates

Table 98. Yamato Scientific Co.,Ltd. Competitive Strengths & Weaknesses

Table 99. Longhua Technology Group (Luoyang) Company Limited Basic Information, Manufacturing Base and Competitors

Table 100. Longhua Technology Group (Luoyang) Company Limited Major Business

Table 101. Longhua Technology Group (Luoyang) Company Limited Cooling Water Circulation Device Product and Services

Table 102. Longhua Technology Group (Luoyang) Company Limited Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Longhua Technology Group (Luoyang) Company Limited Recent Developments/Updates

Table 104. Longhua Technology Group (Luoyang) Company Limited Competitive Strengths & Weaknesses

Table 105. Panasonic Basic Information, Manufacturing Base and Competitors

Table 106. Panasonic Major Business

Table 107. Panasonic Cooling Water Circulation Device Product and Services

Table 108. Panasonic Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Panasonic Recent Developments/Updates

Table 110. Panasonic Competitive Strengths & Weaknesses

Table 111. Ferrotec Basic Information, Manufacturing Base and Competitors

Table 112. Ferrotec Major Business

Table 113. Ferrotec Cooling Water Circulation Device Product and Services

Table 114. Ferrotec Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Ferrotec Recent Developments/Updates

Table 116. Ferrotec Competitive Strengths & Weaknesses

Table 117. LABOAO Basic Information, Manufacturing Base and Competitors

Table 118. LABOAO Major Business

Table 119. LABOAO Cooling Water Circulation Device Product and Services

Table 120. LABOAO Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. LABOAO Recent Developments/Updates

Table 122. LABOAO Competitive Strengths & Weaknesses

Table 123. HCP PUMP Basic Information, Manufacturing Base and Competitors

Table 124. HCP PUMP Major Business

Table 125. HCP PUMP Cooling Water Circulation Device Product and Services

Table 126. HCP PUMP Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. HCP PUMP Recent Developments/Updates

Table 128. HCP PUMP Competitive Strengths & Weaknesses

Table 129. Better Technology Group Limited Basic Information, Manufacturing Base and Competitors

Table 130. Better Technology Group Limited Major Business

Table 131. Better Technology Group Limited Cooling Water Circulation Device Product and Services

Table 132. Better Technology Group Limited Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 133. Better Technology Group Limited Recent Developments/Updates
- Table 134. Better Technology Group Limited Competitive Strengths & Weaknesses
- Table 135. EYELA Basic Information, Manufacturing Base and Competitors
- Table 136. EYELA Major Business
- Table 137. EYELA Cooling Water Circulation Device Product and Services
- Table 138. EYELA Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. EYELA Recent Developments/Updates
- Table 140. EYELA Competitive Strengths & Weaknesses
- Table 141. PiovanGroup Basic Information, Manufacturing Base and Competitors
- Table 142. PiovanGroup Major Business
- Table 143. PiovanGroup Cooling Water Circulation Device Product and Services
- Table 144. PiovanGroup Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. PiovanGroup Recent Developments/Updates
- Table 146. PiovanGroup Competitive Strengths & Weaknesses
- Table 147. LabTech Basic Information, Manufacturing Base and Competitors
- Table 148. LabTech Major Business
- Table 149. LabTech Cooling Water Circulation Device Product and Services
- Table 150. LabTech Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. LabTech Recent Developments/Updates
- Table 152. LabTech Competitive Strengths & Weaknesses
- Table 153. Bohle AG Basic Information, Manufacturing Base and Competitors
- Table 154. Bohle AG Major Business
- Table 155. Bohle AG Cooling Water Circulation Device Product and Services
- Table 156. Bohle AG Cooling Water Circulation Device Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Bohle AG Recent Developments/Updates
- Table 158. Bohle AG Competitive Strengths & Weaknesses
- Table 159. Global Key Players of Cooling Water Circulation Device Upstream (Raw Materials)
- Table 160. Global Cooling Water Circulation Device Typical Customers
- Table 161. Cooling Water Circulation Device Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Cooling Water Circulation Device Picture

Figure 2. World Cooling Water Circulation Device Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Cooling Water Circulation Device Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Cooling Water Circulation Device Production (2021-2032) & (K Units)

Figure 5. World Cooling Water Circulation Device Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Cooling Water Circulation Device Production Value Market Share by Region (2021-2032)

Figure 7. World Cooling Water Circulation Device Production Market Share by Region (2021-2032)

Figure 8. North America Cooling Water Circulation Device Production (2021-2032) & (K Units)

Figure 9. Europe Cooling Water Circulation Device Production (2021-2032) & (K Units)

Figure 10. China Cooling Water Circulation Device Production (2021-2032) & (K Units)

Figure 11. Japan Cooling Water Circulation Device Production (2021-2032) & (K Units)

Figure 12. Cooling Water Circulation Device Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 15. World Cooling Water Circulation Device Consumption Market Share by Region (2021-2032)

Figure 16. United States Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 17. China Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 18. Europe Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 19. Japan Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 20. South Korea Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 22. India Cooling Water Circulation Device Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Cooling Water Circulation Device by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Cooling Water Circulation Device Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Cooling Water Circulation Device Markets in 2025

Figure 26. United States VS China: Cooling Water Circulation Device Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Cooling Water Circulation Device Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Cooling Water Circulation Device Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Cooling Water Circulation Device Production Market Share 2025

Figure 30. China Based Manufacturers Cooling Water Circulation Device Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Cooling Water Circulation Device Production Market Share 2025

Figure 32. World Cooling Water Circulation Device Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Cooling Water Circulation Device Production Value Market Share by Type in 2025

Figure 34. Air-cooled Chiller

Figure 35. Water-cooled Chiller

Figure 36. Water-to-water Heat Exchanger

Figure 37. Compressed Air Refrigeration

Figure 38. Semiconductor (Thermoelectric) Refrigeration

Figure 39. World Cooling Water Circulation Device Production Market Share by Type (2021-2032)

Figure 40. World Cooling Water Circulation Device Production Value Market Share by Type (2021-2032)

Figure 41. World Cooling Water Circulation Device Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Cooling Water Circulation Device Production Value by System Structure, (USD Million), 2021 & 2025 & 2032

Figure 43. World Cooling Water Circulation Device Production Value Market Share by System Structure in 2025

Figure 44. Integrated/Box-type

Figure 45. Separate Type

Figure 46. Modular Combination Type

Figure 47. Others

Figure 48. World Cooling Water Circulation Device Production Market Share by System Structure (2021-2032)

Figure 49. World Cooling Water Circulation Device Production Value Market Share by System Structure (2021-2032)

Figure 50. World Cooling Water Circulation Device Average Price by System Structure (2021-2032) & (US\$/Unit)

Figure 51. World Cooling Water Circulation Device Production Value by Cooling Capacity Range, (USD Million), 2021 & 2025 & 2032

Figure 52. World Cooling Water Circulation Device Production Value Market Share by Cooling Capacity Range in 2025

Figure 53. Cooling Capacity Range: 0.1 KW - 5 KW

Figure 54. Cooling Capacity Range: 5 KW - 50 KW

Figure 55. Others

Figure 56. World Cooling Water Circulation Device Production Market Share by Cooling Capacity Range (2021-2032)

Figure 57. World Cooling Water Circulation Device Production Value Market Share by Cooling Capacity Range (2021-2032)

Figure 58. World Cooling Water Circulation Device Average Price by Cooling Capacity Range (2021-2032) & (US\$/Unit)

Figure 59. World Cooling Water Circulation Device Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Cooling Water Circulation Device Production Value Market Share by Application in 2025

Figure 61. Electricity

Figure 62. Chemicals

Figure 63. Food

Figure 64. Others

Figure 65. World Cooling Water Circulation Device Production Market Share by Application (2021-2032)

Figure 66. World Cooling Water Circulation Device Production Value Market Share by Application (2021-2032)

Figure 67. World Cooling Water Circulation Device Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Cooling Water Circulation Device Industry Chain

Figure 69. Cooling Water Circulation Device Procurement Model

Figure 70. Cooling Water Circulation Device Sales Model

Figure 71. Cooling Water Circulation Device Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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