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Global Battery Pack Liquid Cooling Manifold Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Pack Liquid Cooling Manifold market size is expected to reach $ 2872 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

Battery Pack Liquid Cooling Manifold refers to a coolant-distribution assembly installed inside or immediately adjacent to an automotive traction-battery pack.

It distributes coolant from a main supply passage to multiple cold plates, battery modules or cooling tubes and collects the returning coolant through a return passage. The product may consist of separate supply and return manifolds, an integrated dual-channel body, or a manifold-and-line assembly.

The manifold may incorporate branch connectors, fixed restrictors, flow-balancing features, quick connectors, sensors, valves, venting points and mounting structures. Its purpose is to provide controlled coolant distribution while minimizing pressure loss, leakage points, package space and assembly complexity.

Cold plates, standalone cooling tubes, pumps, chillers, reservoirs, vehicle-level thermal-management modules and non-automotive cooling manifolds are excluded.

The 2025 benchmark ASP is US$70 per unit, modeled global sales volume is approximately 16,517.26k units, and the estimated average manufacturing gross margin is approximately 22%.

The upstream industry chain includes engineering plastics, aluminum alloys, elastomers, seals, hoses, tubes, quick connectors, valves, sensors and fastening

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components. The midstream includes hydraulic design, flow simulation, injection molding, blow molding, extrusion, welding, connector assembly, sensor integration, pressure-drop testing, leak testing and thermal-cycle validation. The downstream mainly covers passenger cars, commercial vehicles, buses and special-purpose electric vehicles.

The primary engineering objective of a battery-pack cooling manifold is not simply to move coolant, but to distribute it uniformly among multiple cooling branches.

If one branch receives excessive flow while another receives insufficient flow, battery modules can develop different temperature profiles even when total pump flow is adequate. Manifold taper, inlet position, branch diameter, internal surface geometry, restrictor size and supply–return arrangement therefore directly affect temperature uniformity and pumping energy.

Parallel manifolds supply several cold plates from a common inlet and collect the return flow through a common outlet. They can provide relatively uniform inlet temperature across modules but require careful hydraulic balancing.

Series systems are simpler but expose downstream modules to progressively warmer coolant and accumulated pressure loss. Hybrid or zoned systems divide a large battery pack into several controlled cooling regions.

Report Scope

This report studies the global Battery Pack Liquid Cooling Manifold production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Pack Liquid Cooling Manifold 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 Battery Pack Liquid Cooling Manifold that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Pack Liquid Cooling Manifold total production and demand, 2021-2032, (K Units)

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Global Battery Pack Liquid Cooling Manifold total production value, 2021-2032, (USD Million)

Global Battery Pack Liquid Cooling Manifold production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Pack Liquid Cooling Manifold consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Pack Liquid Cooling Manifold domestic production, consumption, key domestic manufacturers and share

Global Battery Pack Liquid Cooling Manifold production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Pack Liquid Cooling Manifold production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Pack Liquid Cooling Manifold production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Pack Liquid Cooling Manifold 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 Sogefi S.p.A., VOSS Automotive GmbH, Kongsberg Automotive ASA, TI Automotive, Hutchinson SA, ILPEA Industries S.p.A., Tristone Flowtech Holding SAS, R?chling Automotive SE, Norma Group SE, Cooper Standard Holdings Inc., 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 Battery Pack Liquid Cooling Manifold market

Detailed Segmentation:

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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 Battery Pack Liquid Cooling Manifold Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Battery Pack Liquid Cooling Manifold Market, Segmentation by Type:

Parallel-Branch Manifold

Series-Flow Manifold

Hybrid or Zoned Manifold

Global Battery Pack Liquid Cooling Manifold Market, Segmentation by

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Design Pressure:

Low-Pressure Grade: ?3 bar

Standard-Pressure Grade: >3–6 bar

High-Pressure Grade: >6 bar

Global Battery Pack Liquid Cooling Manifold Market, Segmentation by Number of Cooling Branches:

Small Manifold: ?4 Branches

Standard Manifold: 5–8 Branches

Large Manifold: ?9 Branches

Global Battery Pack Liquid Cooling Manifold Market, Segmentation by Application:

Passenger Cars

Light Commercial Vehicles

Medium & Heavy Trucks

Other

Companies Profiled:

Sogefi S.p.A.

VOSS Automotive GmbH

Kongsberg Automotive ASA

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TI Automotive

Hutchinson SA

ILPEA Industries S.p.A.

Tristone Flowtech Holding SAS

R?chling Automotive SE

Norma Group SE

Cooper Standard Holdings Inc.

Toyoda Gosei Co., Ltd.

Sumitomo Riko Company Limited

YAPP Automotive Systems Co., Ltd.

Ningbo Joyson Electronic Corp.

Shanghai Baolong Automotive Corporation

Key Questions Answered:

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

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

2.1 World Battery Pack Liquid Cooling Manifold Demand (2021-2032)
2.2 World Battery Pack Liquid Cooling Manifold Consumption by Region
  2.2.1 World Battery Pack Liquid Cooling Manifold Consumption by Region (2021-2026)
  2.2.2 World Battery Pack Liquid Cooling Manifold Consumption Forecast by Region (2027-2032)
2.3 United States Battery Pack Liquid Cooling Manifold Consumption (2021-2032)
2.4 China Battery Pack Liquid Cooling Manifold Consumption (2021-2032)
2.5 Europe Battery Pack Liquid Cooling Manifold Consumption (2021-2032)
2.6 Japan Battery Pack Liquid Cooling Manifold Consumption (2021-2032)
2.7 South Korea Battery Pack Liquid Cooling Manifold Consumption (2021-2032)
2.8 ASEAN Battery Pack Liquid Cooling Manifold Consumption (2021-2032)

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2.9 India Battery Pack Liquid Cooling Manifold Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Battery Pack Liquid Cooling Manifold Production Value by Manufacturer (2021-2026)
3.2 World Battery Pack Liquid Cooling Manifold Production by Manufacturer (2021-2026)
3.3 World Battery Pack Liquid Cooling Manifold Average Price by Manufacturer (2021-2026)
3.4 Battery Pack Liquid Cooling Manifold Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Battery Pack Liquid Cooling Manifold Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Battery Pack Liquid Cooling Manifold in 2025
  3.5.3 Global Concentration Ratios (CR8) for Battery Pack Liquid Cooling Manifold in 2025
3.6 Battery Pack Liquid Cooling Manifold Market: Overall Company Footprint Analysis
  3.6.1 Battery Pack Liquid Cooling Manifold Market: Region Footprint
  3.6.2 Battery Pack Liquid Cooling Manifold Market: Company Product Type Footprint
  3.6.3 Battery Pack Liquid Cooling Manifold 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: Battery Pack Liquid Cooling Manifold Production Value Comparison
  4.1.1 United States VS China: Battery Pack Liquid Cooling Manifold Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Battery Pack Liquid Cooling Manifold Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Battery Pack Liquid Cooling Manifold Production

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Comparison
4.2.1 United States VS China: Battery Pack Liquid Cooling Manifold Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Battery Pack Liquid Cooling Manifold Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Battery Pack Liquid Cooling Manifold Consumption Comparison
4.3.1 United States VS China: Battery Pack Liquid Cooling Manifold Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Battery Pack Liquid Cooling Manifold Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Battery Pack Liquid Cooling Manifold Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Battery Pack Liquid Cooling Manifold Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value (2021-2026)
4.4.3 United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production (2021-2026)
4.5 China Based Battery Pack Liquid Cooling Manifold Manufacturers and Market Share
4.5.1 China Based Battery Pack Liquid Cooling Manifold Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value (2021-2026)
4.5.3 China Based Manufacturers Battery Pack Liquid Cooling Manifold Production (2021-2026)
4.6 Rest of World Based Battery Pack Liquid Cooling Manifold Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Battery Pack Liquid Cooling Manifold Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Battery Pack Liquid Cooling Manifold Market Size Overview by Type: 2021 VS 2025 VS 2032

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5.2 Segment Introduction by Type
5.2.1 Parallel-Branch Manifold
5.2.2 Series-Flow Manifold
5.2.3 Hybrid or Zoned Manifold
5.3 Market Segment by Type
5.3.1 World Battery Pack Liquid Cooling Manifold Production by Type (2021-2032)
5.3.2 World Battery Pack Liquid Cooling Manifold Production Value by Type (2021-2032)
5.3.3 World Battery Pack Liquid Cooling Manifold Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DESIGN PRESSURE

6.1 World Battery Pack Liquid Cooling Manifold Market Size Overview by Design Pressure: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Design Pressure
6.2.1 Low-Pressure Grade: ?3 bar
6.2.2 Standard-Pressure Grade: >3–6 bar
6.2.3 High-Pressure Grade: >6 bar
6.3 Market Segment by Design Pressure
6.3.1 World Battery Pack Liquid Cooling Manifold Production by Design Pressure (2021-2032)
6.3.2 World Battery Pack Liquid Cooling Manifold Production Value by Design Pressure (2021-2032)
6.3.3 World Battery Pack Liquid Cooling Manifold Average Price by Design Pressure (2021-2032)

7 MARKET ANALYSIS BY NUMBER OF COOLING BRANCHES

7.1 World Battery Pack Liquid Cooling Manifold Market Size Overview by Number of Cooling Branches: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Number of Cooling Branches
7.2.1 Small Manifold: ?4 Branches
7.2.2 Standard Manifold: 5–8 Branches
7.2.3 Large Manifold: ?9 Branches
7.3 Market Segment by Number of Cooling Branches
7.3.1 World Battery Pack Liquid Cooling Manifold Production by Number of Cooling Branches (2021-2032)
7.3.2 World Battery Pack Liquid Cooling Manifold Production Value by Number of Cooling Branches (2021-2032)

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7.3.3 World Battery Pack Liquid Cooling Manifold Average Price by Number of Cooling Branches (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Battery Pack Liquid Cooling Manifold Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Passenger Cars
8.2.2 Light Commercial Vehicles
8.2.3 Medium & Heavy Trucks
8.2.4 Other
8.3 Market Segment by Application
8.3.1 World Battery Pack Liquid Cooling Manifold Production by Application (2021-2032)
8.3.2 World Battery Pack Liquid Cooling Manifold Production Value by Application (2021-2032)
8.3.3 World Battery Pack Liquid Cooling Manifold Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sogefi S.p.A.
9.1.1 Sogefi S.p.A. Details
9.1.2 Sogefi S.p.A. Major Business
9.1.3 Sogefi S.p.A. Battery Pack Liquid Cooling Manifold Product and Services
9.1.4 Sogefi S.p.A. Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Sogefi S.p.A. Recent Developments/Updates
9.1.6 Sogefi S.p.A. Competitive Strengths & Weaknesses
9.2 VOSS Automotive GmbH
9.2.1 VOSS Automotive GmbH Details
9.2.2 VOSS Automotive GmbH Major Business
9.2.3 VOSS Automotive GmbH Battery Pack Liquid Cooling Manifold Product and Services
9.2.4 VOSS Automotive GmbH Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 VOSS Automotive GmbH Recent Developments/Updates
9.2.6 VOSS Automotive GmbH Competitive Strengths & Weaknesses

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info@marketpublishers.com

9.3 Kongsberg Automotive ASA
9.3.1 Kongsberg Automotive ASA Details
9.3.2 Kongsberg Automotive ASA Major Business
9.3.3 Kongsberg Automotive ASA Battery Pack Liquid Cooling Manifold Product and Services
9.3.4 Kongsberg Automotive ASA Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Kongsberg Automotive ASA Recent Developments/Updates
9.3.6 Kongsberg Automotive ASA Competitive Strengths & Weaknesses
9.4 TI Automotive
9.4.1 TI Automotive Details
9.4.2 TI Automotive Major Business
9.4.3 TI Automotive Battery Pack Liquid Cooling Manifold Product and Services
9.4.4 TI Automotive Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 TI Automotive Recent Developments/Updates
9.4.6 TI Automotive Competitive Strengths & Weaknesses
9.5 Hutchinson SA
9.5.1 Hutchinson SA Details
9.5.2 Hutchinson SA Major Business
9.5.3 Hutchinson SA Battery Pack Liquid Cooling Manifold Product and Services
9.5.4 Hutchinson SA Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Hutchinson SA Recent Developments/Updates
9.5.6 Hutchinson SA Competitive Strengths & Weaknesses
9.6 ILPEA Industries S.p.A.
9.6.1 ILPEA Industries S.p.A. Details
9.6.2 ILPEA Industries S.p.A. Major Business
9.6.3 ILPEA Industries S.p.A. Battery Pack Liquid Cooling Manifold Product and Services
9.6.4 ILPEA Industries S.p.A. Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 ILPEA Industries S.p.A. Recent Developments/Updates
9.6.6 ILPEA Industries S.p.A. Competitive Strengths & Weaknesses
9.7 Tristone Flowtech Holding SAS
9.7.1 Tristone Flowtech Holding SAS Details
9.7.2 Tristone Flowtech Holding SAS Major Business
9.7.3 Tristone Flowtech Holding SAS Battery Pack Liquid Cooling Manifold Product and Services

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info@marketpublishers.com

9.7.4 Tristone Flowtech Holding SAS Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Tristone Flowtech Holding SAS Recent Developments/Updates
9.7.6 Tristone Flowtech Holding SAS Competitive Strengths & Weaknesses
9.8 R?chling Automotive SE
9.8.1 R?chling Automotive SE Details
9.8.2 R?chling Automotive SE Major Business
9.8.3 R?chling Automotive SE Battery Pack Liquid Cooling Manifold Product and Services
9.8.4 R?chling Automotive SE Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 R?chling Automotive SE Recent Developments/Updates
9.8.6 R?chling Automotive SE Competitive Strengths & Weaknesses
9.9 Norma Group SE
9.9.1 Norma Group SE Details
9.9.2 Norma Group SE Major Business
9.9.3 Norma Group SE Battery Pack Liquid Cooling Manifold Product and Services
9.9.4 Norma Group SE Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Norma Group SE Recent Developments/Updates
9.9.6 Norma Group SE Competitive Strengths & Weaknesses
9.10 Cooper Standard Holdings Inc.
9.10.1 Cooper Standard Holdings Inc. Details
9.10.2 Cooper Standard Holdings Inc. Major Business
9.10.3 Cooper Standard Holdings Inc. Battery Pack Liquid Cooling Manifold Product and Services
9.10.4 Cooper Standard Holdings Inc. Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 Cooper Standard Holdings Inc. Recent Developments/Updates
9.10.6 Cooper Standard Holdings Inc. Competitive Strengths & Weaknesses
9.11 Toyoda Gosei Co., Ltd.
9.11.1 Toyoda Gosei Co., Ltd. Details
9.11.2 Toyoda Gosei Co., Ltd. Major Business
9.11.3 Toyoda Gosei Co., Ltd. Battery Pack Liquid Cooling Manifold Product and Services
9.11.4 Toyoda Gosei Co., Ltd. Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Toyoda Gosei Co., Ltd. Recent Developments/Updates
9.11.6 Toyoda Gosei Co., Ltd. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

9.12 Sumitomo Riko Company Limited
9.12.1 Sumitomo Riko Company Limited Details
9.12.2 Sumitomo Riko Company Limited Major Business
9.12.3 Sumitomo Riko Company Limited Battery Pack Liquid Cooling Manifold Product and Services
9.12.4 Sumitomo Riko Company Limited Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Sumitomo Riko Company Limited Recent Developments/Updates
9.12.6 Sumitomo Riko Company Limited Competitive Strengths & Weaknesses
9.13 YAPP Automotive Systems Co., Ltd.
9.13.1 YAPP Automotive Systems Co., Ltd. Details
9.13.2 YAPP Automotive Systems Co., Ltd. Major Business
9.13.3 YAPP Automotive Systems Co., Ltd. Battery Pack Liquid Cooling Manifold Product and Services
9.13.4 YAPP Automotive Systems Co., Ltd. Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 YAPP Automotive Systems Co., Ltd. Recent Developments/Updates
9.13.6 YAPP Automotive Systems Co., Ltd. Competitive Strengths & Weaknesses
9.14 Ningbo Joyson Electronic Corp.
9.14.1 Ningbo Joyson Electronic Corp. Details
9.14.2 Ningbo Joyson Electronic Corp. Major Business
9.14.3 Ningbo Joyson Electronic Corp. Battery Pack Liquid Cooling Manifold Product and Services
9.14.4 Ningbo Joyson Electronic Corp. Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Ningbo Joyson Electronic Corp. Recent Developments/Updates
9.14.6 Ningbo Joyson Electronic Corp. Competitive Strengths & Weaknesses
9.15 Shanghai Baolong Automotive Corporation
9.15.1 Shanghai Baolong Automotive Corporation Details
9.15.2 Shanghai Baolong Automotive Corporation Major Business
9.15.3 Shanghai Baolong Automotive Corporation Battery Pack Liquid Cooling Manifold Product and Services
9.15.4 Shanghai Baolong Automotive Corporation Battery Pack Liquid Cooling Manifold Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 Shanghai Baolong Automotive Corporation Recent Developments/Updates
9.15.6 Shanghai Baolong Automotive Corporation Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

+357 96 030922
info@marketpublishers.com

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

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. World Battery Pack Liquid Cooling Manifold Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Battery Pack Liquid Cooling Manifold Production Value by Region (2021-2026) & (USD Million)
Table 3. World Battery Pack Liquid Cooling Manifold Production Value by Region (2027-2032) & (USD Million)
Table 4. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Region (2021-2026)
Table 5. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Region (2027-2032)
Table 6. World Battery Pack Liquid Cooling Manifold Production by Region (2021-2026) & (K Units)
Table 7. World Battery Pack Liquid Cooling Manifold Production by Region (2027-2032) & (K Units)
Table 8. World Battery Pack Liquid Cooling Manifold Production Market Share by Region (2021-2026)
Table 9. World Battery Pack Liquid Cooling Manifold Production Market Share by Region (2027-2032)
Table 10. World Battery Pack Liquid Cooling Manifold Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Battery Pack Liquid Cooling Manifold Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Battery Pack Liquid Cooling Manifold Major Market Trends
Table 13. World Battery Pack Liquid Cooling Manifold Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Battery Pack Liquid Cooling Manifold Consumption by Region (2021-2026) & (K Units)
Table 15. World Battery Pack Liquid Cooling Manifold Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Battery Pack Liquid Cooling Manifold Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Battery Pack Liquid Cooling Manifold Producers in 2025
Table 18. World Battery Pack Liquid Cooling Manifold Production by Manufacturer (2021-2026) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Battery Pack Liquid Cooling Manifold Producers in 2025
Table 20. World Battery Pack Liquid Cooling Manifold Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Battery Pack Liquid Cooling Manifold Company Evaluation Quadrant
Table 22. World Battery Pack Liquid Cooling Manifold Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Battery Pack Liquid Cooling Manifold Production Site of Key Manufacturer
Table 24. Battery Pack Liquid Cooling Manifold Market: Company Product Type Footprint
Table 25. Battery Pack Liquid Cooling Manifold Market: Company Product Application Footprint
Table 26. Battery Pack Liquid Cooling Manifold Competitive Factors
Table 27. Battery Pack Liquid Cooling Manifold New Entrant and Capacity Expansion Plans
Table 28. Battery Pack Liquid Cooling Manifold Mergers & Acquisitions Activity
Table 29. United States VS China Battery Pack Liquid Cooling Manifold Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Battery Pack Liquid Cooling Manifold Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Battery Pack Liquid Cooling Manifold Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Battery Pack Liquid Cooling Manifold Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production Market Share (2021-2026)
Table 37. China Based Battery Pack Liquid Cooling Manifold Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 40. China Based Manufacturers Battery Pack Liquid Cooling Manifold Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Battery Pack Liquid Cooling Manifold Production Market Share (2021-2026)
Table 42. Rest of World Based Battery Pack Liquid Cooling Manifold Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production Market Share (2021-2026)
Table 47. World Battery Pack Liquid Cooling Manifold Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Battery Pack Liquid Cooling Manifold Production by Type (2021-2026) & (K Units)
Table 49. World Battery Pack Liquid Cooling Manifold Production by Type (2027-2032) & (K Units)
Table 50. World Battery Pack Liquid Cooling Manifold Production Value by Type (2021-2026) & (USD Million)
Table 51. World Battery Pack Liquid Cooling Manifold Production Value by Type (2027-2032) & (USD Million)
Table 52. World Battery Pack Liquid Cooling Manifold Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Battery Pack Liquid Cooling Manifold Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Battery Pack Liquid Cooling Manifold Production Value by Design Pressure, (USD Million), 2021 & 2025 & 2032
Table 55. World Battery Pack Liquid Cooling Manifold Production by Design Pressure (2021-2026) & (K Units)
Table 56. World Battery Pack Liquid Cooling Manifold Production by Design Pressure (2027-2032) & (K Units)
Table 57. World Battery Pack Liquid Cooling Manifold Production Value by Design Pressure (2021-2026) & (USD Million)
Table 58. World Battery Pack Liquid Cooling Manifold Production Value by Design Pressure (2027-2032) & (USD Million)
Table 59. World Battery Pack Liquid Cooling Manifold Average Price by Design

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Pressure (2021-2026) & (US$/Unit)
Table 60. World Battery Pack Liquid Cooling Manifold Average Price by Design Pressure (2027-2032) & (US$/Unit)
Table 61. World Battery Pack Liquid Cooling Manifold Production Value by Number of Cooling Branches, (USD Million), 2021 & 2025 & 2032
Table 62. World Battery Pack Liquid Cooling Manifold Production by Number of Cooling Branches (2021-2026) & (K Units)
Table 63. World Battery Pack Liquid Cooling Manifold Production by Number of Cooling Branches (2027-2032) & (K Units)
Table 64. World Battery Pack Liquid Cooling Manifold Production Value by Number of Cooling Branches (2021-2026) & (USD Million)
Table 65. World Battery Pack Liquid Cooling Manifold Production Value by Number of Cooling Branches (2027-2032) & (USD Million)
Table 66. World Battery Pack Liquid Cooling Manifold Average Price by Number of Cooling Branches (2021-2026) & (US$/Unit)
Table 67. World Battery Pack Liquid Cooling Manifold Average Price by Number of Cooling Branches (2027-2032) & (US$/Unit)
Table 68. World Battery Pack Liquid Cooling Manifold Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Battery Pack Liquid Cooling Manifold Production by Application (2021-2026) & (K Units)
Table 70. World Battery Pack Liquid Cooling Manifold Production by Application (2027-2032) & (K Units)
Table 71. World Battery Pack Liquid Cooling Manifold Production Value by Application (2021-2026) & (USD Million)
Table 72. World Battery Pack Liquid Cooling Manifold Production Value by Application (2027-2032) & (USD Million)
Table 73. World Battery Pack Liquid Cooling Manifold Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Battery Pack Liquid Cooling Manifold Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Sogefi S.p.A. Basic Information, Manufacturing Base and Competitors
Table 76. Sogefi S.p.A. Major Business
Table 77. Sogefi S.p.A. Battery Pack Liquid Cooling Manifold Product and Services
Table 78. Sogefi S.p.A. Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Sogefi S.p.A. Recent Developments/Updates
Table 80. Sogefi S.p.A. Competitive Strengths & Weaknesses

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Table 81. VOSS Automotive GmbH Basic Information, Manufacturing Base and Competitors
Table 82. VOSS Automotive GmbH Major Business
Table 83. VOSS Automotive GmbH Battery Pack Liquid Cooling Manifold Product and Services
Table 84. VOSS Automotive GmbH Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. VOSS Automotive GmbH Recent Developments/Updates
Table 86. VOSS Automotive GmbH Competitive Strengths & Weaknesses
Table 87. Kongsberg Automotive ASA Basic Information, Manufacturing Base and Competitors
Table 88. Kongsberg Automotive ASA Major Business
Table 89. Kongsberg Automotive ASA Battery Pack Liquid Cooling Manifold Product and Services
Table 90. Kongsberg Automotive ASA Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Kongsberg Automotive ASA Recent Developments/Updates
Table 92. Kongsberg Automotive ASA Competitive Strengths & Weaknesses
Table 93. TI Automotive Basic Information, Manufacturing Base and Competitors
Table 94. TI Automotive Major Business
Table 95. TI Automotive Battery Pack Liquid Cooling Manifold Product and Services
Table 96. TI Automotive Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. TI Automotive Recent Developments/Updates
Table 98. TI Automotive Competitive Strengths & Weaknesses
Table 99. Hutchinson SA Basic Information, Manufacturing Base and Competitors
Table 100. Hutchinson SA Major Business
Table 101. Hutchinson SA Battery Pack Liquid Cooling Manifold Product and Services
Table 102. Hutchinson SA Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Hutchinson SA Recent Developments/Updates
Table 104. Hutchinson SA Competitive Strengths & Weaknesses
Table 105. ILPEA Industries S.p.A. Basic Information, Manufacturing Base and Competitors
Table 106. ILPEA Industries S.p.A. Major Business

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Table 107. ILPEA Industries S.p.A. Battery Pack Liquid Cooling Manifold Product and Services
Table 108. ILPEA Industries S.p.A. Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. ILPEA Industries S.p.A. Recent Developments/Updates
Table 110. ILPEA Industries S.p.A. Competitive Strengths & Weaknesses
Table 111. Tristone Flowtech Holding SAS Basic Information, Manufacturing Base and Competitors
Table 112. Tristone Flowtech Holding SAS Major Business
Table 113. Tristone Flowtech Holding SAS Battery Pack Liquid Cooling Manifold Product and Services
Table 114. Tristone Flowtech Holding SAS Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Tristone Flowtech Holding SAS Recent Developments/Updates
Table 116. Tristone Flowtech Holding SAS Competitive Strengths & Weaknesses
Table 117. R?chling Automotive SE Basic Information, Manufacturing Base and Competitors
Table 118. R?chling Automotive SE Major Business
Table 119. R?chling Automotive SE Battery Pack Liquid Cooling Manifold Product and Services
Table 120. R?chling Automotive SE Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. R?chling Automotive SE Recent Developments/Updates
Table 122. R?chling Automotive SE Competitive Strengths & Weaknesses
Table 123. Norma Group SE Basic Information, Manufacturing Base and Competitors
Table 124. Norma Group SE Major Business
Table 125. Norma Group SE Battery Pack Liquid Cooling Manifold Product and Services
Table 126. Norma Group SE Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Norma Group SE Recent Developments/Updates
Table 128. Norma Group SE Competitive Strengths & Weaknesses
Table 129. Cooper Standard Holdings Inc. Basic Information, Manufacturing Base and Competitors
Table 130. Cooper Standard Holdings Inc. Major Business

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Table 131. Cooper Standard Holdings Inc. Battery Pack Liquid Cooling Manifold Product and Services
Table 132. Cooper Standard Holdings Inc. Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Cooper Standard Holdings Inc. Recent Developments/Updates
Table 134. Cooper Standard Holdings Inc. Competitive Strengths & Weaknesses
Table 135. Toyoda Gosei Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 136. Toyoda Gosei Co., Ltd. Major Business
Table 137. Toyoda Gosei Co., Ltd. Battery Pack Liquid Cooling Manifold Product and Services
Table 138. Toyoda Gosei Co., Ltd. Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Toyoda Gosei Co., Ltd. Recent Developments/Updates
Table 140. Toyoda Gosei Co., Ltd. Competitive Strengths & Weaknesses
Table 141. Sumitomo Riko Company Limited Basic Information, Manufacturing Base and Competitors
Table 142. Sumitomo Riko Company Limited Major Business
Table 143. Sumitomo Riko Company Limited Battery Pack Liquid Cooling Manifold Product and Services
Table 144. Sumitomo Riko Company Limited Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Sumitomo Riko Company Limited Recent Developments/Updates
Table 146. Sumitomo Riko Company Limited Competitive Strengths & Weaknesses
Table 147. YAPP Automotive Systems Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 148. YAPP Automotive Systems Co., Ltd. Major Business
Table 149. YAPP Automotive Systems Co., Ltd. Battery Pack Liquid Cooling Manifold Product and Services
Table 150. YAPP Automotive Systems Co., Ltd. Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. YAPP Automotive Systems Co., Ltd. Recent Developments/Updates
Table 152. YAPP Automotive Systems Co., Ltd. Competitive Strengths & Weaknesses
Table 153. Ningbo Joyson Electronic Corp. Basic Information, Manufacturing Base and Competitors

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Table 154. Ningbo Joyson Electronic Corp. Major Business
Table 155. Ningbo Joyson Electronic Corp. Battery Pack Liquid Cooling Manifold Product and Services
Table 156. Ningbo Joyson Electronic Corp. Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Ningbo Joyson Electronic Corp. Recent Developments/Updates
Table 158. Ningbo Joyson Electronic Corp. Competitive Strengths & Weaknesses
Table 159. Shanghai Baolong Automotive Corporation Basic Information, Manufacturing Base and Competitors
Table 160. Shanghai Baolong Automotive Corporation Major Business
Table 161. Shanghai Baolong Automotive Corporation Battery Pack Liquid Cooling Manifold Product and Services
Table 162. Shanghai Baolong Automotive Corporation Battery Pack Liquid Cooling Manifold Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. Shanghai Baolong Automotive Corporation Recent Developments/Updates
Table 164. Shanghai Baolong Automotive Corporation Competitive Strengths & Weaknesses
Table 165. Global Key Players of Battery Pack Liquid Cooling Manifold Upstream (Raw Materials)
Table 166. Global Battery Pack Liquid Cooling Manifold Typical Customers
Table 167. Battery Pack Liquid Cooling Manifold Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Battery Pack Liquid Cooling Manifold Picture
Figure 2. World Battery Pack Liquid Cooling Manifold Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Battery Pack Liquid Cooling Manifold Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Battery Pack Liquid Cooling Manifold Production (2021-2032) & (K Units)
Figure 5. World Battery Pack Liquid Cooling Manifold Average Price (2021-2032) & (US$/Unit)
Figure 6. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Region (2021-2032)
Figure 7. World Battery Pack Liquid Cooling Manifold Production Market Share by Region (2021-2032)
Figure 8. North America Battery Pack Liquid Cooling Manifold Production (2021-2032) & (K Units)
Figure 9. Europe Battery Pack Liquid Cooling Manifold Production (2021-2032) & (K Units)
Figure 10. China Battery Pack Liquid Cooling Manifold Production (2021-2032) & (K Units)
Figure 11. Japan Battery Pack Liquid Cooling Manifold Production (2021-2032) & (K Units)
Figure 12. Battery Pack Liquid Cooling Manifold Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 15. World Battery Pack Liquid Cooling Manifold Consumption Market Share by Region (2021-2032)
Figure 16. United States Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 17. China Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 18. Europe Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 19. Japan Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)

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Figure 20. South Korea Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 21. ASEAN Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 22. India Battery Pack Liquid Cooling Manifold Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of Battery Pack Liquid Cooling Manifold by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Battery Pack Liquid Cooling Manifold Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Battery Pack Liquid Cooling Manifold Markets in 2025
Figure 26. United States VS China: Battery Pack Liquid Cooling Manifold Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Battery Pack Liquid Cooling Manifold Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Battery Pack Liquid Cooling Manifold Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Battery Pack Liquid Cooling Manifold Production Market Share 2025
Figure 30. China Based Manufacturers Battery Pack Liquid Cooling Manifold Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Battery Pack Liquid Cooling Manifold Production Market Share 2025
Figure 32. World Battery Pack Liquid Cooling Manifold Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Type in 2025
Figure 34. Parallel-Branch Manifold
Figure 35. Series-Flow Manifold
Figure 36. Hybrid or Zoned Manifold
Figure 37. World Battery Pack Liquid Cooling Manifold Production Market Share by Type (2021-2032)
Figure 38. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Type (2021-2032)
Figure 39. World Battery Pack Liquid Cooling Manifold Average Price by Type (2021-2032) & (US$/Unit)
Figure 40. World Battery Pack Liquid Cooling Manifold Production Value by Design Pressure, (USD Million), 2021 & 2025 & 2032

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Figure 41. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Design Pressure in 2025
Figure 42. Low-Pressure Grade: ?3 bar
Figure 43. Standard-Pressure Grade: >3–6 bar
Figure 44. High-Pressure Grade: >6 bar
Figure 45. World Battery Pack Liquid Cooling Manifold Production Market Share by Design Pressure (2021-2032)
Figure 46. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Design Pressure (2021-2032)
Figure 47. World Battery Pack Liquid Cooling Manifold Average Price by Design Pressure (2021-2032) & (US$/Unit)
Figure 48. World Battery Pack Liquid Cooling Manifold Production Value by Number of Cooling Branches, (USD Million), 2021 & 2025 & 2032
Figure 49. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Number of Cooling Branches in 2025
Figure 50. Small Manifold: ?4 Branches
Figure 51. Standard Manifold: 5–8 Branches
Figure 52. Large Manifold: ?9 Branches
Figure 53. World Battery Pack Liquid Cooling Manifold Production Market Share by Number of Cooling Branches (2021-2032)
Figure 54. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Number of Cooling Branches (2021-2032)
Figure 55. World Battery Pack Liquid Cooling Manifold Average Price by Number of Cooling Branches (2021-2032) & (US$/Unit)
Figure 56. World Battery Pack Liquid Cooling Manifold Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 57. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Application in 2025
Figure 58. Passenger Cars
Figure 59. Light Commercial Vehicles
Figure 60. Medium & Heavy Trucks
Figure 61. Other
Figure 62. World Battery Pack Liquid Cooling Manifold Production Market Share by Application (2021-2032)
Figure 63. World Battery Pack Liquid Cooling Manifold Production Value Market Share by Application (2021-2032)
Figure 64. World Battery Pack Liquid Cooling Manifold Average Price by Application (2021-2032) & (US$/Unit)
Figure 65. Battery Pack Liquid Cooling Manifold Industry Chain

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Figure 66. Battery Pack Liquid Cooling Manifold Procurement Model
Figure 67. Battery Pack Liquid Cooling Manifold Sales Model
Figure 68. Battery Pack Liquid Cooling Manifold Sales Channels, Direct Sales, and Distribution
Figure 69. Methodology
Figure 70. Research Process and Data Source

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