

Global Battery Pack Liquid Cooling Manifold Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Battery Pack Liquid Cooling Manifold market size was valued at US\$ 1190 million in 2025 and is forecast to a readjusted size of US\$ 2872 million by 2032 with a CAGR of 13.2% during review period.

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 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 is a detailed and comprehensive analysis for global Battery Pack Liquid Cooling Manifold market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Battery Pack Liquid Cooling Manifold market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit),

2021-2032

Global Battery Pack Liquid Cooling Manifold market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Liquid Cooling Manifold market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Liquid Cooling Manifold market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Battery Pack Liquid Cooling Manifold

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Battery Pack Liquid Cooling Manifold market based on the following parameters - company overview, sales quantity, revenue, 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.

Battery Pack Liquid Cooling Manifold market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

markets.

Market Segmentation

Market segment by Type

Parallel-Branch Manifold

Series-Flow Manifold

Hybrid or Zoned Manifold

Market segment by Design Pressure

Low-Pressure Grade: ?3 bar

Standard-Pressure Grade: >3–6 bar

High-Pressure Grade: >6 bar

Market segment by Number of Cooling Branches

Small Manifold: ?4 Branches

Standard Manifold: 5–8 Branches

Large Manifold: ?9 Branches

Market segment by Application

Passenger Cars

Light Commercial Vehicles

Medium & Heavy Trucks

Other

Major players covered

Sogefi S.p.A.

VOSS Automotive GmbH

Kongsberg Automotive ASA

TI Automotive

Hutchinson SA

ILPEA Industries S.p.A.

Tristone Flowtech Holding SAS

Röchling 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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Battery Pack Liquid Cooling Manifold product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Pack Liquid Cooling Manifold, with price, sales quantity, revenue, and global market share of Battery Pack Liquid Cooling Manifold from 2021 to 2026.

Chapter 3, the Battery Pack Liquid Cooling Manifold competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Pack Liquid Cooling Manifold breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Battery Pack Liquid Cooling Manifold market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Battery Pack Liquid Cooling Manifold.

Chapter 14 and 15, to describe Battery Pack Liquid Cooling Manifold sales channel, distributors, customers, research findings and conclusion.

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