

Global Battery Pack Liquid Cooling Manifold Market Growth 2026-2032

<https://marketpublishers.com/r/GA37767F1986EN.html>

Date: October 2026

Pages: 113

Price: US\$ 3,660.00 (Single User License)

ID: GA37767F1986EN

Abstracts

The global Battery Pack Liquid Cooling Manifold market size is predicted to grow from US\$ 1131 million in 2025 to US\$ 2852 million in 2032; it is expected to grow at a CAGR of 14.0% from 2026 to 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

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

LP Information, Inc. (LPI) ' newest research report, the “Battery Pack Liquid Cooling Manifold Industry Forecast” looks at past sales and reviews total world Battery Pack Liquid Cooling Manifold sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Pack Liquid Cooling Manifold sales for 2026 through 2032. With Battery Pack Liquid Cooling Manifold sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Pack Liquid Cooling Manifold industry.

This Insight Report provides a comprehensive analysis of the global Battery Pack Liquid Cooling Manifold landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Pack Liquid Cooling Manifold portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique

position in an accelerating global Battery Pack Liquid Cooling Manifold market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Pack Liquid Cooling Manifold and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Pack Liquid Cooling Manifold.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Pack Liquid Cooling Manifold market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Parallel-Branch Manifold

Series-Flow Manifold

Hybrid or Zoned Manifold

Segmentation by Design Pressure:

Low-Pressure Grade: ?3 bar

Standard-Pressure Grade: >3–6 bar

High-Pressure Grade: >6 bar

Segmentation by Number of Cooling Branches:

Small Manifold: ?4 Branches

Standard Manifold: 5–8 Branches

Large Manifold: ≥9 Branches

Segmentation by Application:

Passenger Cars

Light Commercial Vehicles

Medium & Heavy Trucks

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Pack Liquid Cooling Manifold market?

What factors are driving Battery Pack Liquid Cooling Manifold market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Pack Liquid Cooling Manifold market opportunities vary by end market size?

How does Battery Pack Liquid Cooling Manifold break out by Type, by Application?

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