

Global Liquid Cooling Leak Test Equipment 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 Liquid Cooling Leak Test Equipment market size was valued at US\$ 535 million in 2025 and is forecast to a readjusted size of US\$ 1335 million by 2032 with a CAGR of 12.5% during review period.

Liquid Cooling System Leak Test Equipment refers to industrial test instruments, benches and automated systems used to verify the sealing integrity and leak rate of liquid cooling components and assemblies during manufacturing, process control and end-of-line quality inspection. The equipment is typically applied to cold plates, coolant tubes, manifolds, quick disconnects, valves, CDU subassemblies, battery cooling plates, coolant circuits and server liquid cooling modules. Main test methods include pressure decay, differential pressure, mass flow, helium mass spectrometry, hydrogen/nitrogen tracer gas, vacuum chamber testing, accumulation testing and sniffer testing. A complete system may integrate the leak detector, pneumatic or vacuum circuit, sealing fixture, quick connectors, loading mechanism, barcode traceability, MES communication, data analytics and OK/NG sorting. This research focuses on manufacturing-side leak test equipment for high-reliability liquid cooling applications, especially AI data center cold plates and cooling modules, electric vehicle battery cooling plates and coolant circuits, energy storage thermal management parts, power electronics cold plates and industrial cooling components.

Based on our research, liquid cooling leak test equipment should be understood as a manufacturing quality-control equipment segment rather than a standalone leak detector market. The growth of AI servers and high-power computing is creating new demand for leak testing of cold plates, manifolds, quick disconnects and CDU

subassemblies, while electric vehicles and energy storage continue to support demand for battery cooling plates, coolant circuits and pack-level components. Compared with conventional water pressure testing or basic air tightness checks, liquid cooling applications require more quantitative and repeatable leak-rate control because a small leak can result in severe failure consequences, especially in data centers where coolant leakage may damage electronics, interrupt operation and increase downtime cost. This is pushing the industry toward tracer gas testing, helium mass spectrometry, automated end-of-line inspection, data traceability and closed-loop quality control.

From the supply side, the global industry is structured around European, American and Japanese high-end instrument and system suppliers, while Chinese local equipment manufacturers are increasingly active in application-specific solutions. INFICON, Pfeiffer Vacuum and Leybold have strong foundations in helium, vacuum and tracer gas leak detection. ATEQ, Cincinnati Test Systems, Marposs and innomatec are more visible in production-line solutions and customized test benches. FUKUDA and COSMO Instruments represent Japan's strength in precision leak testing and standardized air leak testers. In China, Hirays, Wanyi Intelligent, Daxin Vacuum and Wanken are gaining relevance through local delivery, automation integration and liquid cooling or new-energy applications. The broad longlist is larger than the core formal list because many regional leak test equipment suppliers may be technically relevant but still lack public evidence for liquid cooling applications.

From a demand perspective, EV battery cooling plates and coolant circuits were among the earliest scalable applications, while AI data center liquid cooling is becoming the most important incremental growth driver from 2025 onward. Cold plate manufacturers, liquid cooling module suppliers, quick disconnect suppliers and server infrastructure companies increasingly require lower leak-rate thresholds, faster cycle time, stable fixtures, data traceability and integration with production management systems. High-reliability applications are moving toward helium and tracer gas methods, while pressure decay, differential pressure and mass-flow methods remain widely used in cost-sensitive and high-throughput production environments. Over the next few years, helium recovery, low-helium-concentration testing, automatic calibration, temperature compensation and multi-station parallel testing are expected to become important product development directions.

The competitive landscape is unlikely to become a simple winner-takes-all market. High-sensitivity helium leak detection will remain concentrated among a limited number of global and emerging domestic instrument suppliers, while customized test benches, fixtures and automation systems will remain more regional and project-based. In China,

local suppliers benefit from fast engineering response, cost competitiveness, non-standard fixture design and MES integration capabilities. In the next three to five years, leading companies are expected to launch more application-specific solutions for AI data center cold plates, EV battery cooling plates, liquid cooling quick disconnects and coolant circuit end-of-line testing, while smaller suppliers may continue to compete through customization, price and local service.

This report is a detailed and comprehensive analysis for global Liquid Cooling Leak Test Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Tested Component 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 Liquid Cooling Leak Test Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Liquid Cooling Leak Test Equipment market size and forecasts, by Tested Component and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Liquid Cooling Leak Test Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Liquid Cooling Leak Test Equipment

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 Liquid Cooling Leak Test Equipment 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 INFICON Holding AG, ATEQ, Cincinnati Test Systems, Marposs S.p.A., Pfeiffer Vacuum, Leybold, innomatec, FUKUDA CO., LTD., COSMO Instruments Co., Ltd., Shenzhen Hirays Technology Co., Ltd., etc.

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

Market Segmentation

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

Market segment by Tested Component

Cold Plate

Battery Cooling Plate

Coolant Circuit

Manifold / Distribution Header

Quick Disconnect

CDU Subassembly

Market segment by Leak Rate Sensitivity

Gross Leak Test

Standard Airtightness Test

Fine Leak Test

Ultra-fine Helium Leak Test

Market segment by Test Method

Pressure Decay Test

Differential Pressure Test

Mass Flow Test

Helium Mass Spectrometry Test

Tracer Gas Sniffing / Accumulation

Market segment by Application

AI Data Center Liquid Cooling

Electric Vehicle Battery Thermal Management

Energy Storage Thermal Management

Power Electronics Cooling

Major players covered

INFICON Holding AG

ATEQ

Cincinnati Test Systems

Marposs S.p.A.

Pfeiffer Vacuum

Leybold

innomatec

FUKUDA CO., LTD.

COSMO Instruments Co., Ltd.

Shenzhen Hirays Technology Co., Ltd.

Anhui Wanyi Intelligent Technology Co., Ltd.

Daxin Vacuum Technology

Guangzhou Wanken Leak Testing Equipment Co., Ltd.

CETA Testsysteme GmbH

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Liquid Cooling Leak Test Equipment product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Liquid Cooling Leak Test Equipment 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 Tested Component and by Application, with sales market share and growth rate by Tested Component, 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 Liquid Cooling Leak Test Equipment market forecast, by regions, by Tested Component, 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 Liquid Cooling Leak Test Equipment.

Chapter 14 and 15, to describe Liquid Cooling Leak Test Equipment sales channel, distributors, customers, research findings and conclusion.

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