

Global Helium Leak Detector for Lithium Battery Market Growth 2026-2032

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Abstracts

The global Helium Leak Detector for Lithium Battery market size is predicted to grow from US\$ 82.62 million in 2025 to US\$ 135 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

A helium leak detector for lithium battery is a precision testing instrument used to detect micro-leaks in battery cells, battery covers, tabs, weld seams, safety valves, cooling plates, and battery pack components by using helium as a tracer gas. It is mainly applied to cylindrical, prismatic, pouch, and button cells, as well as battery modules and thermal management parts. Because lithium batteries require strict sealing to prevent electrolyte leakage, moisture ingress, gas escape, and safety risks, helium leak detection is widely used in production quality control, R&D validation, welding inspection, and end-of-line testing.

Global production capacity is approximately 8 thousand units.

In 2025, global sales reached approximately 4.1 thousand units, with an average price of around KUS\$ 20.6 per unit, gross margin around 48%.

The helium leak detectors for lithium batteries represent a high-growth application within the leak detection industry. Compared with general industrial leak testing, lithium battery applications require faster cycle time, higher automation, stable sensitivity, and strong process traceability. Although helium cost, equipment investment, and integration complexity remain challenges, helium leak detection is still one of the most reliable methods for detecting micro-leaks in battery cells and related components. With continued growth in electric vehicles, energy storage, and high-performance batteries, demand for lithium battery helium leak detection systems is expected to remain strong,

especially in automated production lines.

Market Trend

The helium leak detector market for lithium batteries is moving toward high-speed automation, dry-pump systems, lower helium consumption, and integration with battery production lines. As battery factories expand, customers require leak detection systems with faster cycle time, stable sensitivity, automatic loading and unloading, data traceability, and compatibility with different cell formats. Demand is especially strong for vacuum chamber helium leak testing, accumulation testing, and customized systems for prismatic cells, cylindrical cells, pouch cells, and battery cooling plates. The market is also shifting from standalone instruments to complete automated leak detection stations.

Market Drive

The main driver of helium leak detectors for lithium batteries is the rapid expansion of electric vehicles, energy storage systems, consumer electronics, and power battery manufacturing. Battery safety and reliability are critical, and even tiny leaks can lead to electrolyte leakage, moisture contamination, capacity loss, swelling, corrosion, or thermal runaway risks. Battery manufacturers therefore require highly sensitive and repeatable leak testing during cell sealing, laser welding, cover plate assembly, and pack production. Stricter quality standards, higher energy density batteries, and larger-scale automated production lines are further increasing demand for helium leak detection equipment.

Upstream and Downstream

The upstream supply chain includes mass spectrometer modules, vacuum pumps, dry pumps, turbomolecular pumps, helium sensors, valves, pressure gauges, vacuum chambers, sealing fixtures, automation components, PLC systems, software, hoses, fittings, and helium gas suppliers. Key upstream participants include vacuum technology companies, precision component suppliers, automation companies, sensor manufacturers, and industrial gas providers. Downstream customers mainly include lithium battery cell manufacturers, EV battery producers, battery pack companies, energy storage system suppliers, automotive OEMs, battery equipment integrators, cooling plate manufacturers, and R&D laboratories. These users apply helium leak detectors for cell inspection, welding validation, pack sealing, and production quality control.

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

This Insight Report provides a comprehensive analysis of the global Helium Leak Detector for Lithium Battery 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 Helium Leak Detector for Lithium Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Helium Leak Detector for Lithium Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Helium Leak Detector for Lithium Battery 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 Helium Leak Detector for Lithium Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Helium Leak Detector for Lithium Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Benchtop

Mobile

Segmentation by Tested Object:

Cell Detect

Battery Pack Detect

Segmentation by Degree of Automation:

Fully Automatic

Semi-automatic

Segmentation by Application:

Power Battery

Energy Storage Battery

Consumer Electronics Battery

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.

INFICON (Switzerland)

Marposs (Italy)

Agilent Technologies (USA)

Pfeiffer Vacuum (Germany)

Leybold (Germany)

ULVAC (Japan)

Anhui Wanyi Science and Technology (China)

Yamaha Fine Technologies (Japan)

Shenzhen Utimes Intelligent Equipment (China)

Anhui Nuoyi (NOY) Technology (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Helium Leak Detector for Lithium Battery market?

What factors are driving Helium Leak Detector for Lithium Battery market growth, globally and by region?

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

How do Helium Leak Detector for Lithium Battery market opportunities vary by end market size?

How does Helium Leak Detector for Lithium Battery break out by Type, by Application?

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