

Global Portable Helium Leak Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Portable Helium Leak Detector market size is expected to reach \$ 291 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

A portable helium leak detector is a lightweight, hand-carry or compact leak testing instrument used to locate and measure very small leaks in sealed parts, assemblies, vacuum systems, pipelines, tanks, valves, refrigeration equipment, and industrial components. It uses helium as a tracer gas and detects escaping helium through a high-sensitivity mass spectrometer or sensor system. Compared with benchtop and mobile cart-type models, portable helium leak detectors emphasize easy transportation, fast setup, field usability, and flexible operation, making them suitable for maintenance, troubleshooting, service inspection, and quality control in locations where fixed testing equipment is not convenient.

Global production capacity is approximately 10 thousand units.

In 2025, global sales reached approximately 8.99 thousand units, with an average price of around KUS\$ 21.9 per unit, gross margin around 48%.

The portable helium leak detector market is a practical and growing segment within the leak detection equipment industry. Its main advantage lies in combining high-sensitivity helium detection with field mobility and fast operation. Although portable models may have lower pumping capacity or fewer automation functions than large benchtop or mobile systems, they are highly valued for maintenance, service, and on-site troubleshooting. Market growth will continue to be supported by stricter leak control requirements, expansion of high-end manufacturing, and increasing demand for reliable field inspection. Portable helium leak detectors are expected to remain important tools

in industrial quality assurance and equipment maintenance.

Market Trend

The portable helium leak detector market is trending toward smaller size, lighter weight, faster response, and easier operation. Users increasingly prefer instruments that can be carried directly to equipment sites while still providing high leak detection sensitivity. Digital displays, automatic calibration, battery-powered operation, wireless data transfer, and simple user interfaces are becoming important product features. Demand is also rising for lower helium consumption and faster test cycles due to helium cost and supply concerns. Portable models are gaining wider adoption in HVAC, refrigeration, vacuum equipment maintenance, semiconductor facilities, automotive service, aerospace inspection, and industrial field testing applications.

Market Drive

The portable helium leak detector market is mainly driven by the growing need for flexible and on-site leak inspection. Many industrial systems, such as refrigeration units, vacuum chambers, pipelines, heat exchangers, gas storage systems, and large mechanical assemblies, are difficult to move to a fixed test station. Portable equipment allows operators to perform rapid leak checking during installation, commissioning, maintenance, and repair. Stricter quality and safety standards in aerospace, automotive, electronics, energy, and industrial manufacturing also support demand. In addition, increasing investment in semiconductor fabs, EV batteries, hydrogen systems, and high-reliability equipment creates more opportunities for portable leak detection tools.

Upstream and Downstream

The upstream supply chain for portable helium leak detectors includes miniature vacuum pumps, sensor modules, mass spectrometer components, valves, batteries, electronic control boards, displays, software, hoses, probes, fittings, and helium gas suppliers. Component reliability, sensitivity, and portability directly affect product performance. Upstream participants include vacuum technology suppliers, precision sensor manufacturers, electronics companies, and gas suppliers. Downstream customers include refrigeration and HVAC service providers, semiconductor manufacturers, vacuum equipment companies, automotive and battery manufacturers, aerospace companies, industrial maintenance contractors, valve producers, pipeline operators, and research laboratories. These users apply portable helium leak detectors for field inspection, maintenance, quality testing, and fault diagnosis.

This report studies the global Portable Helium Leak Detector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Portable Helium Leak Detector 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 Portable Helium Leak Detector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Portable Helium Leak Detector total production and demand, 2021-2032, (Units)

Global Portable Helium Leak Detector total production value, 2021-2032, (USD Million)

Global Portable Helium Leak Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Portable Helium Leak Detector consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Portable Helium Leak Detector domestic production, consumption, key domestic manufacturers and share

Global Portable Helium Leak Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Portable Helium Leak Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Portable Helium Leak Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Portable Helium Leak Detector 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 Shimadzu, Agilent, INFICON, Leybold, Pfeiffer Vacuum, ULVAC, Edwards Vacuum, Canon Anelva, VIC Leak Detection, LACO Technologies, 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 Portable Helium Leak Detector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Portable Helium Leak Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Portable Helium Leak Detector Market, Segmentation by Type:

Dry Pump

Oil-sealed Pump

Others

Global Portable Helium Leak Detector Market, Segmentation by Detection Method:

Vacuum Method

Sniffer Method

Others

Global Portable Helium Leak Detector Market, Segmentation by Degree of Automation:

Fully Automatic

Semi-automatic

Global Portable Helium Leak Detector Market, Segmentation by Application:

Automotive

Semiconductors and Electronics

Medical Devices

Aerospace

General Industrial

Others

Companies Profiled:

Shimadzu

Agilent

INFICON

Leybold

Pfeiffer Vacuum

ULVAC

Edwards Vacuum

Canon Anelva

VIC Leak Detection

LACO Technologies

Wanyi Technology

NOY

Ditea

Bowei

KYKY

REBORN

Keyi Vacuum

ALLIANCE CONCEPT

Key Questions Answered:

1. How big is the global Portable Helium Leak Detector market?
2. What is the demand of the global Portable Helium Leak Detector market?
3. What is the year over year growth of the global Portable Helium Leak Detector market?
4. What is the production and production value of the global Portable Helium Leak Detector market?
5. Who are the key producers in the global Portable Helium Leak Detector market?
6. What are the growth factors driving the market demand?

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