

Global Pulsed Discharge Helium Ionization Detector (PDHID) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pulsed Discharge Helium Ionization Detector (PDHID) market size is expected to reach \$ 43.83 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

The Pulsed Discharge Helium Ionization Detector (PDHID) is a highly sensitive, non-radioactive, and universal detector for gas chromatography. It utilizes radiation generated by a low-power pulsed helium discharge to ionize the molecules of the analyte; it is particularly well-suited for the detection of trace inorganic and organic gaseous components (down to the ppb level) and is frequently employed in the analysis of high-purity gases.

Its core hardware components include a precision electrode system (typically utilizing rhenium or specialized alloys), a pulsed high-voltage power supply controller, and a highly sensitive microcurrent amplifier. Furthermore, ultra-high-purity helium gas along with a complementary helium purifier constitutes an indispensable consumable; the quality of these materials directly determines the detector's baseline noise and detection limits.

The Pulsed Discharge Helium Ionization Detector (PDHID) falls into the category of low-volume, high-unit-price, niche, and customized detector products; the price for a standard module typically ranges from \$7,000 to \$15,000. High-end customized units and products designed for specialized applications command higher prices and are frequently sold on a quotation basis. The industry's gross profit margin typically hovers around 30% to 40%.

The Pulsed Discharge Helium Ionization Detector (PDHID) stands as one of the most significant ultra-sensitive, universal detection technologies in the field of gas chromatography over the past few decades. As a non-destructive chromatographic detector, the PDHID successfully bridges the technological gap between the limited sensitivity of conventional Thermal Conductivity Detectors (TCD) and the inability of Flame Ionization Detectors (FID) to detect permanent gases, thanks to its exceptionally high response sensitivity toward nearly all inorganic and organic compounds?with the sole exception of helium itself. Consequently, the PDHID has emerged as the 'gold standard' in demanding analytical domains, such as high-purity gas analysis, the detection of specialty gases in the semiconductor industry, and deep-space exploration. Future technological advancements are expected to focus on further miniaturization, reducing the consumption of high-purity helium, and extending operational lifetimes under complex working conditions through improvements in discharge electrode materials.

This report studies the global Pulsed Discharge Helium Ionization Detector (PDHID) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pulsed Discharge Helium Ionization Detector (PDHID) 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 Pulsed Discharge Helium Ionization Detector (PDHID) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pulsed Discharge Helium Ionization Detector (PDHID) total production and demand, 2021-2032, (Units)

Global Pulsed Discharge Helium Ionization Detector (PDHID) total production value, 2021-2032, (USD Million)

Global Pulsed Discharge Helium Ionization Detector (PDHID) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pulsed Discharge Helium Ionization Detector (PDHID) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pulsed Discharge Helium Ionization Detector (PDHID) domestic production, consumption, key domestic manufacturers and share

Global Pulsed Discharge Helium Ionization Detector (PDHID) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) &

(Units)

Global Pulsed Discharge Helium Ionization Detector (PDHID) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Pulsed Discharge Helium Ionization Detector (PDHID) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pulsed Discharge Helium Ionization Detector (PDHID) 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 VICI Valco Instruments, Peak Laboratories, SCION Instruments, 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 Pulsed Discharge Helium Ionization Detector (PDHID) 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 Pulsed Discharge Helium Ionization Detector (PDHID) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pulsed Discharge Helium Ionization Detector (PDHID) Market, Segmentation by Type:

Single Pulse

Double Pulse

Global Pulsed Discharge Helium Ionization Detector (PDHID) Market, Segmentation by Integration Method:

General Purpose

Instant-Connect

Global Pulsed Discharge Helium Ionization Detector (PDHID) Market, Segmentation by Application Scenarios:

Laboratories

Industrial

Global Pulsed Discharge Helium Ionization Detector (PDHID) Market, Segmentation by Application:

High-Purity Gas Analysis

Semiconductor Industry

Energy & Environmental Monitoring

Petrochemicals

Others

Companies Profiled:

VICI Valco Instruments

Peak Laboratories

SCION Instruments

Key Questions Answered:

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

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