

Global Vapor Delivery Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vapor Delivery Modules market size is expected to reach \$ 290 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

The vapor delivery module / VDM is a high-precision fluid supply subsystem used to convert deionized water, liquid precursors or partially solid precursor solutions into a controlled vapor flow and stably deliver it to reaction chambers, process chambers or downstream equipment.

The Vapor Delivery Module (VDM) market is better understood as a module-level fluid control subsystem within the semiconductor precursor and high-purity vapor supply chain. Its value is not simply in generating vapor, but in delivering water, liquid precursors, low-vapor-pressure chemicals, or dissolved solid precursors into CVD, ALD, etching, photoresist stripping, surface passivation, and other process chambers in a stable, clean, and accurately metered form.

Current mainstream suppliers have already developed differentiated product routes. Brooks Instrument's VDM300 focuses on ultra-high-purity deionized water vapor delivery and represents a typical water vapor delivery module. Jiangsu GK-PRETECH's FVC 300 water vapor control module is also designed for undiluted ultra-high-purity DI water vapor delivery, integrating FELTON high-precision MFC technology, digital control, and alarm diagnostics. This indicates that Chinese suppliers are beginning to move from standalone flow-control components toward module-level VDM localization.

HORIBA STEC is positioned more toward Liquid Source Vaporization Systems, covering direct injection, mixed injection, baking, and other liquid-source vaporization

methods. Its LE Series and MI/MV Series are mainly used for semiconductor liquid precursor vaporization and control. Bronkhorst's VDM-Series is based on CEM technology, integrating gas and liquid flow controllers, a temperature-controlled evaporator, power supply, display, and control functions into an all-in-one vapor delivery module. This route is more suitable for laboratory, pilot-scale, and selected industrial vapor flow control applications.

MSP/TSI and Kemstream represent the DLI direct liquid injection vaporization route. MSP/TSI's Turbo II Vaporizers are based on droplet vaporization and DLI technology, while Kemstream's Vapcab is an automated standalone vapor generator and vapor flow control system capable of handling liquid precursors and dissolved solid precursors.

This report studies the global Vapor Delivery Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vapor Delivery Modules 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 Vapor Delivery Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vapor Delivery Modules total production and demand, 2021-2032, (Units)

Global Vapor Delivery Modules total production value, 2021-2032, (USD Million)

Global Vapor Delivery Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Vapor Delivery Modules consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Vapor Delivery Modules domestic production, consumption, key domestic manufacturers and share

Global Vapor Delivery Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Vapor Delivery Modules production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Vapor Delivery Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Vapor Delivery Modules 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 Horiba, Brooks Instrument, Lintec, MSP (TSI), Bronkhorst, Exentec, Kemstream, Jiangsu Gao Kai Precision Fluid Technology Co., Ltd, 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 Vapor Delivery Modules 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 Vapor Delivery Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vapor Delivery Modules Market, Segmentation by Type:

DI Water VDM

Liquid Source Vaporization Module

Others

Global Vapor Delivery Modules Market, Segmentation by Application:

Thin Film Deposition

Ething

Others

Companies Profiled:

Horiba

Brooks Instrument

Lintec

MSP (TSI)

Bronkhorst

Exentec

Kemstream

Jiangsu Gao Kai Precision Fluid Technology Co., Ltd

Key Questions Answered:

1. How big is the global Vapor Delivery Modules market?

2. What is the demand of the global Vapor Delivery Modules market?
3. What is the year over year growth of the global Vapor Delivery Modules market?
4. What is the production and production value of the global Vapor Delivery Modules market?
5. Who are the key producers in the global Vapor Delivery Modules market?
6. What are the growth factors driving the market demand?

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