

Global Volatile Organic Compounds Recovery Device Market Growth 2026-2032

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Abstracts

The global Volatile Organic Compounds Recovery Device market size is predicted to grow from US\$ 6166 million in 2025 to US\$ 9583 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

Volatile organic compounds recovery devices are environmental protection and resource recovery equipment used to collect, separate, and recover volatile organic compounds (VOCs) generated during industrial production, storage, transportation, loading and unloading, spraying, printing, pharmaceuticals, chemicals, and oil storage tanks. These units typically employ adsorption, condensation, absorption, membrane separation, compression condensation, or a combination of multiple processes to convert organic vapors such as hydrocarbons, benzene compounds, alcohols, ketones, esters, and halogenated hydrocarbons in waste gases into reusable liquid solvents, oils, or concentrated gases. This reduces VOC emissions, minimizes raw material losses, improves operational safety, and meets environmental emission standards. They are widely used in industries such as petrochemicals, oil and gas storage and transportation, coatings, printing and packaging, electronic chemicals, pharmaceuticals, rubber and plastics, and fine chemicals.

The upstream of the Volatile organic compounds recovery device industry chain mainly includes activated carbon, molecular sieves, zeolite rotors, absorbent liquids, condensers, compressors, vacuum pumps, fans, heat exchangers, membrane separation components, valves, instruments, electrical control systems, and explosion-proof safety components. The midstream involves process design, equipment manufacturing, system integration, installation, commissioning, and operation and maintenance services for VOCs recovery equipment. Core processes include adsorption recovery, condensation recovery, absorption recovery, membrane

separation recovery, compression condensation, and combined recovery. Downstream applications are mainly in the petrochemical, oil and gas storage and transportation, coatings, printing and packaging, pharmaceutical, electronic chemicals, rubber and plastics, and fine chemical industries. In terms of gross profit margin, standardized small-scale VOCs recovery equipment typically has a gross profit margin of approximately 20%–30%, while medium-to-large-scale customized engineering systems have a gross profit margin of approximately 25%–40%. If a company possesses core adsorption materials, membrane components, low-temperature condensation technology, or complete process design capabilities, the gross profit margin can reach 35%–50%. In contrast, the gross profit margin for simple equipment manufacturing, installation, or low-end environmental treatment projects is relatively low, generally around 10%–20%.

The average price of volatile organic compounds recovery device in 2025 is US\$700 k per unit, with sales of 9,004 units and a total capacity of 12,870 units.

Volatile organic compounds recovery devices combine environmental protection and resource recovery attributes. Future demand will be primarily driven by stricter VOC emission regulations, increased safety requirements for petrochemical oil and gas storage and transportation, solvent price fluctuations, and companies' needs for cost reduction and efficiency improvement. Compared to simple end-of-pipe combustion or adsorption treatment, recovery devices can reuse valuable hydrocarbons, benzene compounds, and alcohol, ketone, and ester solvents, making them more suitable for high-concentration, high-value, and recyclable VOC applications. Future industry competition will shift from selling single equipment to competing on comprehensive solutions encompassing process design, core materials, system integration, explosion-proof safety, and operation and maintenance services. Companies with combined process capabilities such as adsorption, condensation, membrane separation, and compression condensation, as well as project experience in specific sectors like petrochemicals, pharmaceuticals, coating, printing and packaging, and electronic chemicals, will be more likely to gain a higher market share and profitability.

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

Compounds Recovery Device industry.

This Insight Report provides a comprehensive analysis of the global Volatile Organic Compounds Recovery Device 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 Volatile Organic Compounds Recovery Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Volatile Organic Compounds Recovery Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Volatile Organic Compounds Recovery Device 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 Volatile Organic Compounds Recovery Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Volatile Organic Compounds Recovery Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Volatile Matter Concentration (

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