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Laboratory Vacuum Pumps Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Laboratory Vacuum Pumps Market was valued at USD 1.8 billion in 2024 and is projected to experience a CAGR of 6.5% from 2025 to 2034. This growth is primarily attributed to the booming pharmaceutical and biotechnology sectors, increasing investment in research and development (R&D), and the escalating need for advanced diagnostic solutions. Laboratories in these industries depend on vacuum pumps for critical applications such as drug development, sterilization, and drying. As the global prevalence of chronic diseases continues to rise, so does the demand for diagnostic tools and laboratory equipment, further driving the vacuum pump market expansion. Additionally, as healthcare initiatives push for more accurate diagnostics and efficient drug development processes, laboratory vacuum pumps play an essential role in ensuring these advancements can be achieved.

Technological innovations, particularly in oil-free and energy-efficient vacuum pumps, are also fueling market growth. With heightened awareness around sustainability and stringent regulations on laboratory equipment, manufacturers are now focusing on creating high-performance, eco-friendly solutions. This shift toward green technologies not only meets regulatory demands but also expands the range of applications for vacuum pumps in diverse laboratory environments. As such, vacuum pumps are becoming increasingly integral to laboratory settings, enhancing efficiency, sustainability, and performance.

The market is segmented by product type, including wet vacuum pumps, vacuum pumps, and dry vacuum pumps. The dry vacuum pumps segment is expected to see the highest growth, projected to grow at a CAGR of 6.8%, reaching USD 2 billion by 2034. These pumps are especially favored in industries like pharmaceuticals and

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biotechnology for their contamination-free operation and low maintenance needs. Their oil-free design is critical in environments where purity is paramount, making them highly suitable for applications such as drying and filtration.

Regarding technology, the laboratory vacuum pumps market is divided into rotary vane, rotary screw, rotary claw, and other technologies. The rotary vane vacuum pump segment is set to dominate, expected to grow at a CAGR of 6.9%, reaching USD 1.5 billion by 2034. These pumps are renowned for their reliability and versatility in applications such as filtration, drying, and distillation. Their durable design ensures stable vacuum levels, making them an essential tool in both pharmaceutical and industrial laboratories.

In the U.S., the laboratory vacuum pumps market reached USD 697.2 million in 2024 and is projected to continue driving market growth, with an expected CAGR of 5.9% from 2025 to 2034. This growth is fueled by the nation's leadership in the pharmaceutical and biotechnology sectors, with increasing demand for advanced laboratory equipment to support new healthcare initiatives and innovative drug development.

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Contents

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CHAPTER 9 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 - 2034 ($ MN)

CHAPTER 10 COMPANY PROFILES

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