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Global Molecular Drag Pumps Market Growth 2025-2031

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Abstracts

The global Molecular Drag Pumps market size is predicted to grow from US$ 895 million in 2025 to US$ 1347 million in 2031; it is expected to grow at a CAGR of 7.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Molecular Drag Pumps are high-vacuum pumps that use the principle of momentum transfer to move gas molecules from the inlet to the exhaust. Unlike mechanical pumps that rely on direct compression, these pumps employ high-speed rotating surfaces (typically helical or spiral grooves) to impart directional momentum to individual gas molecules, effectively dragging them toward the exhaust. Molecular drag pumps are often used in combination with turbomolecular or backing pumps to extend pressure ranges and improve overall performance in vacuum systems. They are widely applied in semiconductor processing, analytical instrumentation, electron microscopy, and other high-vacuum applications requiring clean, oil-free operation.

Molecular Drag Pumps are characterized by key parameters such as pumping speed (typically 10 to 2,000 L/s), ultimate pressure levels reaching down to 10?? to 10??? mbar, and compression ratios up to 10? for light gases like hydrogen and helium. They operate at high rotational speeds (20,000 to 90,000 rpm), require backing pressures between 1 to 10 mbar, and consume approximately 50–500 watts of power depending on size. Cooling can be air- or water-based, and the pumps are designed for various mounting orientations (vertical, horizontal, or any). Input flange sizes usually range from DN 63 to DN 200 (ISO-KF, ISO-F, or CF standards), with noise levels kept below 50

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