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Automated Liquid Handling Systems Market - Focus on Automated Pipetting Systems and Automated Microplate Washers, 2023-2035: Distribution by Pipetting Technology (Contact Technology, Air Displacement Technology, Piston / Positive Displacement Technology, Acoustic Technology and Free-jet Technology), Washing Technology (Ultrasonic Technology, Acoustic Technology and Centrifugal Technology), Modality (Fixed Tips, Disposable Tips), Type of Instrument (Standalone, Individual Benchtop Workstation, Multi Instrument Systems and Others), Application (Serial Dilution, Plate Replication, PCR / qPCR Setup, Plate Reformatting, High-throughput Screening, Whole Genome Amplification, Cell Culture, Cell-based Assays, Bead Washing and Other Applications), End User (Biotechnology and Pharmaceutical Companies, Academic and Government Research Institutes, Hospitals and Diagnostic Centers and Other End Users) and Key Geographical Regions (North America, Europe, Asia-Pacific, Middle East and North Africa, and Latin America): Industry Trends and Global Forecasts

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Abstracts

The global automated liquid handling systems market is expected to reach USD 6.30 billion by 2035 and is anticipated to grow at a CAGR of 7.4% during the forecast period 2023-2035

Technological progress is instrumental in advancing innovation within the life sciences sector, particularly in optimizing assay throughput and frequency. The rising demand for complex biopharmaceuticals has led to a proliferation of laboratories worldwide offering analytical and product development solutions. Throughout various stages of laboratory processes, meticulous control of variables and parameters remains crucial. Liquid handling, the transfer of fluids for testing purposes, stands as a pivotal step in bioprocessing. However, traditional methods, such as manual handling techniques, heighten the risk of procedural errors and limit flexibility due to the high operational costs associated with continuous human resource availability. Additionally, numerous environmental and process-related factors can hinder or influence efficient liquid handling, potentially compromising the integrity of the solution in progress. Hence, ensuring aseptic conditions throughout liquid handling becomes imperative to safeguard the solution's integrity.

Consequently, the introduction of automated liquid handling systems has emerged as a promising alternative, mitigating the drawbacks associated with manual handling. These instruments have diverse applications in clinical research laboratories and academic institutions, capable of dispensing liquid volumes down to nanoliters with exceptional precision and accuracy. The increasing interest among stakeholders in technological advancements and the adoption of automated liquid handling systems is expected to significantly drive growth in the overall automated liquid handling market during the forecast period.

Report Coverage

The analysis delves into the automated liquid handling systems market, examining pipetting technology, washing technology, modality, instrument type, application, end user, and key geographical regions.

Evaluation of market growth drivers, restraints, opportunities, and challenges that impact the industry.

Assessment of potential advantages and barriers within the market, including

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insights into the competitive landscape among top players.

Revenue forecasting for market segments across five major regions.

A concise summary presenting research insights, offering a comprehensive view of the current state, and projecting the anticipated evolution of the automated liquid handling systems market in the medium-to-long term.

A thorough comparative overview of manual, semi-automated, and automated liquid handling systems. This section details the functionality, benefits, and various types of automated pipetting systems, encompassing tip-based and non-tip based systems. It also covers automated microplate washers and outlines ideal system features, while discussing applications, adoption challenges, and future prospects.

Detailed analysis of the current automated pipetting systems market landscape, encompassing factors such as pipetting technology, certification, instrument types, pipetting head options, system weight, compatible labware, application areas, additional features, and end users. This chapter also examines key providers, analyzing their establishment years, company size, and headquarters locations.

In-depth evaluation of automated pipetting system providers based on company strength (years since establishment), product diversity (liquid handling tasks, applications, end users, etc.), and product strength (instrument types, additional features, compatible labware, etc.).

Elaborate profiles of selected companies involved in automated pipetting systems' manufacturing across diverse regions. Each profile includes an overview of the company, product portfolio, financial details (if available), recent developments, and future perspectives.

Comprehensive analysis of the automated microplate washers market, considering factors like instrument types, compatible microplate types, system weight, compatible labware, application areas, applications, end users, key providers, establishment years, company size, and headquarters locations.

Extensive evaluation of automated microplate washer providers based on company strength, product diversity, and product strength criteria, considering

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factors such as system weight, residual volume, additional features, application areas, and end users.

Detailed profiles of prominent companies engaged in automated microplate washer manufacturing across diverse global regions, encompassing company overview, product portfolio, financial details (if available), recent developments, and future prospects.

In-depth examination of industry partnerships since 2018, analyzing parameters like partnership year, type, automated liquid handling system type, geography, popular products, and active players based on the number of partnerships.

Comprehensive analysis of patents filed or granted concerning automated liquid handling systems since 2018. Factors considered include patent publication year, type, jurisdiction, CPC symbols, applicant types, focus areas, leading players, individual assignees, patent benchmarking, and valuation analysis based on citation count.

Detailed discourse on industry-related trends, key drivers, challenges, strengths, weaknesses, opportunities, and threats using a SWOT framework. Additionally, visual representation of these factors through a Harvey ball analysis.

Key Market Companies

Agilent Technologies

Beckman Coulter Life Sciences

Eppendorf

Hamilton Robotics

MyGenostics

Tecan

Thermo Fisher Scientific

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