

AP 300

Automated Liquid Handling Station



Nowadays, the handling of aqueous samples in laboratories is becoming more frequent. Lab technicians often need to perform steps such as sample transfer, standard calibration curve preparation, internal standard addition, and solvent dispensing. However, errors such as leakage, or incorrect addition can have a significant adverse effect on the accuracy of the experimental process and results. The above processes require the lab technicians' utmost concentration to obtain reliable experimental results.

Considering this, Raykol has introduced the AP 300 Automated Liquid Handling Station, which frees the lab technicians from the tedious process of sample preparation and protects their physical and mental health. At the same time, the system covers functions such as sample registration, preparation and experimental data recording, providing customers with a comprehensive experience in liquid sample handling.

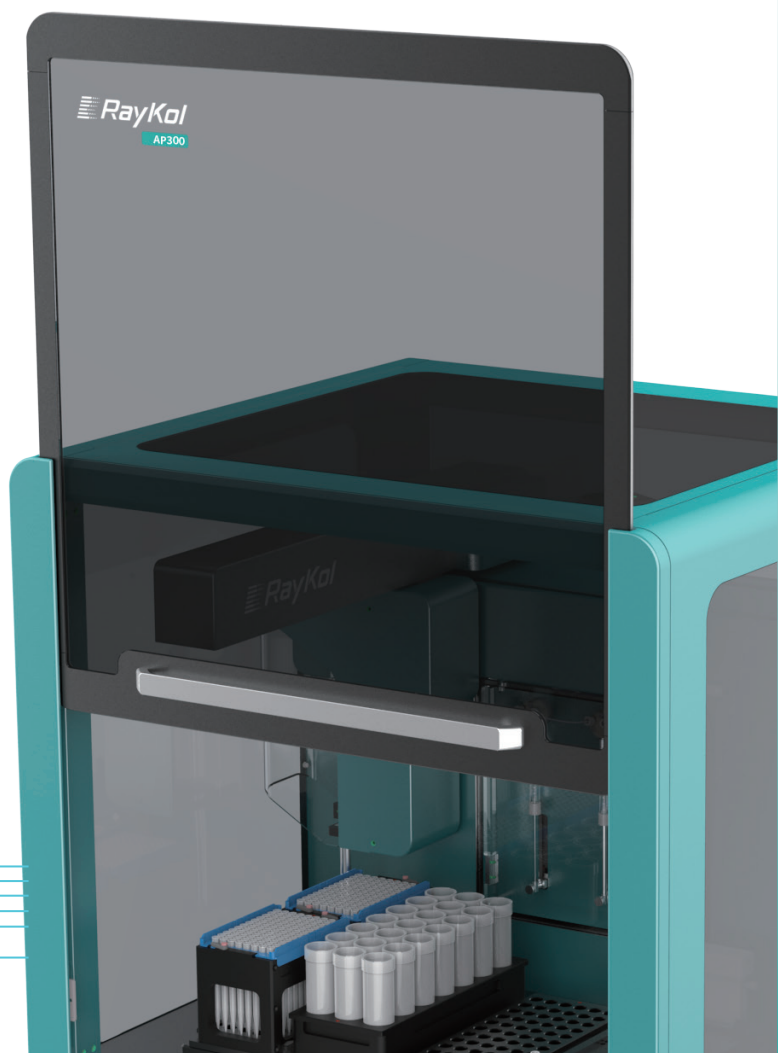
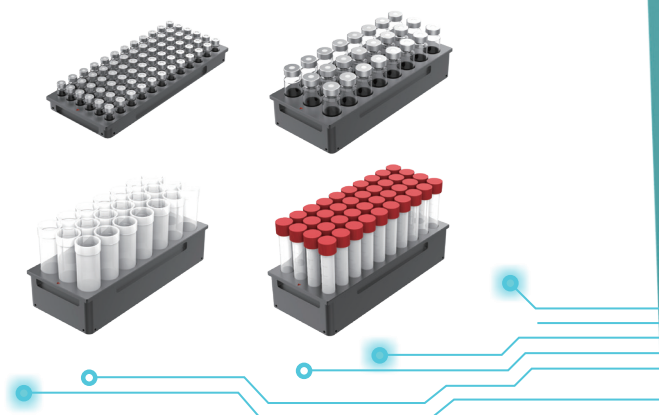
One-Stop Solution for Standard Solution Preparation and Management

Dual Mode

- There are two sampling modes available: pipette + liquid needle mode, and the puncturing needle module mode.
- The pipette module allows for the extraction of liquid while following the movement of the sample, and the quick detachment of the tips eliminate the need for cleaning, saving a significant amount of time in the preparation process.
- For headspace vials containing volatile solvents, the puncturing needle module can be used for precise and convenient microsampling of the sample liquid.

Sample Rack

- The sample rack is equipped with a Peltier cooling and heating function, which allows for the control of the sample at an appropriate temperature.
- The sample rack area integrates an oscillation & mixing function, which enables quick and accurate mixing of intermediate solution, thereby enhancing the accuracy and convenience of the preparation process.
- The sample rack is compatible with common glass tubes available on the market, such as 2mL GC vials, 10mL and 20mL headspace vials, and 15mL and 50mL centrifuge tubes.



High precision

- Using a high-precision syringe to achieve the transfer of minute liquid samples. The syringe works in collaboration to enable dilution in a range of up to 10,000 times.

Multi-function

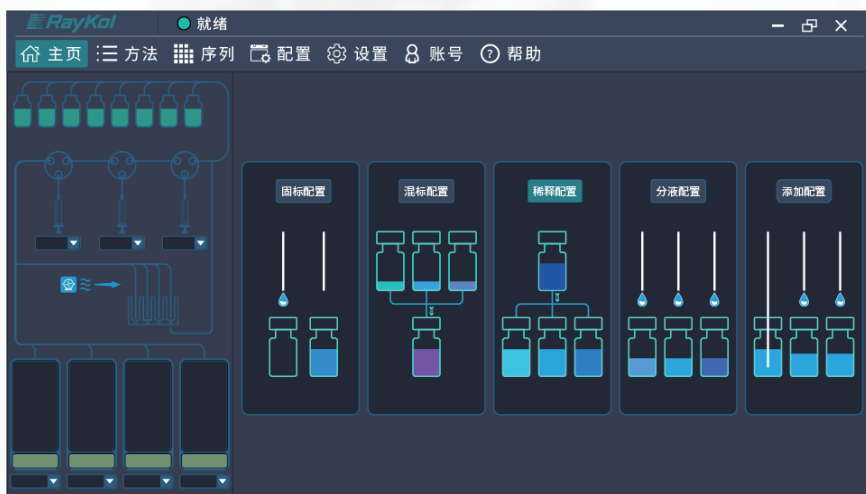
- It can achieve complex processes such as standard calibration curve preparation, mixed standard preparation, and fixed standard preparation, meeting the needs of liquid dispensing operations in the laboratory with common volumes ranging from 5 μ L to 100mL.
- It features integrated sample liquid addition and rapid solvent dispensing, providing multiple functions to choose from.

Reliable performance

- It operates automatically and programmatically, ensuring the consistency and reproducibility of each sample preparation to meet calibration standards requirements

Smart and convenient

- It can integrate single standard fixed standard solvent, mixed standard preparation, and multi-level dilution, editing process and batch process, effectively avoiding human errors.



Safe and healthy

- It allows remote monitoring of unmanned operation status, creating a low-risk experimental environment to protect the health of laboratory personnel.

Product series

Auto Prep 200 Automated Liquid Handling Station

AP 210 Automated Acid Addition System

AP 300 Automated Liquid Handling Station.

Range of application

- It can be used to prepare standard calibration curves for a variety of analysis.



Dedicated to be a leading supplier in smart laboratory



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