

Galatek

Automated Mobile Phase Preparation System



PRODUCT INTRODUCTION

This series of products is specifically designed for the automated preparation of mobile phases required for high performance liquid chromatography (HPLC) and liquid chromatography-mass spectrometry (LC-MS) instruments.

The system enables seamless automation of the whole process, from feeding solid and liquid raw materials, to mixing for dissolution, precise pH adjustment, filtering out impurities, dispensing into mobile phase bottles, and ultrasonic degassing to remove gases dissolved in solvents. Finally, it labels the prepared mobile phase for identification and management. The whole process is automated without the need for human intervention.

Product Features



Automation

Enables whole process automation of mobile phase preparation, ensuring seamless intergration from raw material feeding to finished product output



Ease of use

Supports formulation design and features an automatic low inventory alarm function for reagent and consumables, enhancing operational convenience and efficiency



Modularity

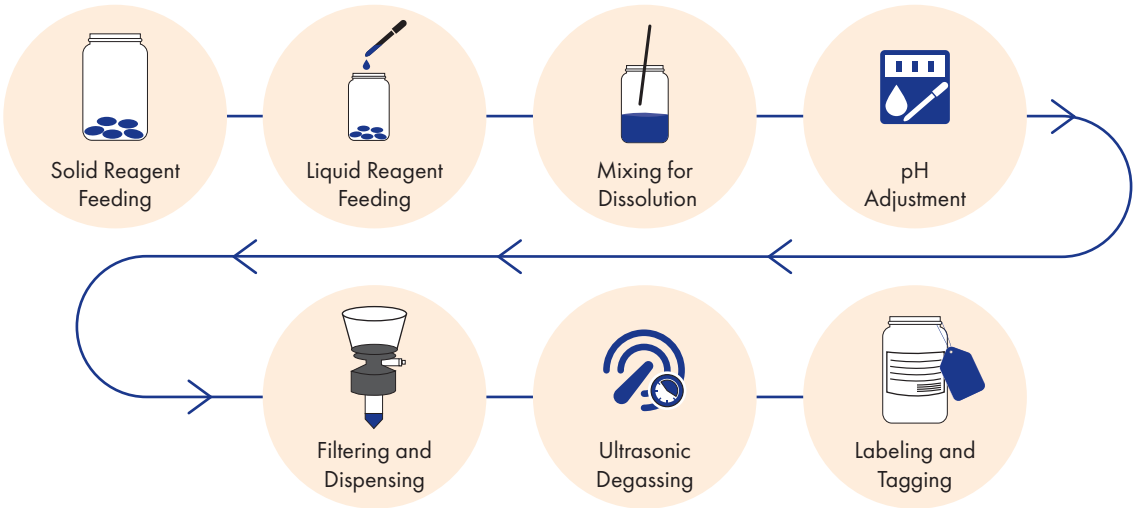
The mobile phase preparation throughput can be selected within the range of 50-200L/day based on actual needs, with functional modules configured as required



Compliance

The system strictly adheres to GMP and FDA 21 CFR Part 11 requirements, ensuring the compliance of the production process and the quality of the product

MOBILE PHASE PREPARATION PROCESS



PRODUCT SERIES

Product Configurations

Product Parameters

Professional

Functional Modules	Solid Feeding	✓
	Liquid Feeding	✓
	pH Adjustment	✓
	Mixing Method	Paddles
	Filtering & Dispensing	✓
	Ultrasonic Degassing	✓
	Labeling/Tagging	✓
Preparation Speed		100 L/day
Additional Functional	Automated pH Meter Calibration Process	✓
	Automated Balance Calibration Process	✓
Dimensions	4m*2m*2.1m	
Raw Reagent Inventory	12 Types	
Raw Powder Inventory	9 Types	
Mobile Phase Preparation Volumn	1L /2L /5L	
Powder Dispensing Precision	≤1% (based on feeding volumn)	
Reagent Dispensing Precision	≤1%	
pH Adjustent Range	0~14	
pH Testing Precision	0.01 pH	
Weighing Precision	1/10,000	
Compliance	GMP/FDA21 CFR Part 11	
Power Supply	220 V/50Hz; 8kW	