

GoodScience

Unique AutoPure Pilot600 Pilot Scale Protein Purification System



Unique AutoPure Pilot600

Unique AutoPure Pilot600 is a pilot-scale benchtop chromatography system that provides GMP or non-GMP two different configurations.

With large working flow rate range, high pressure, and wide detection range, Unique AutoPure Pilot600 can work as method development, scale up and production chromatography system.



System Overview

01

Support column specifications ranging from 26mm to 200mm in diameter.

02

Compact design, table display, convenient movement, front functional components design, easy to operate;

03

Software operation and editing is more convenient and faster with interactive interface and humanized design;

04

High flow piston pump ensures a stable flow rate and gradient, covers a variety of specifications of columns;

05

Accurate detection system, online monitoring UV absorption, conductivity and pH, etc.;

06

Data recording, atlas analysis and reporting functions, monitoring operation data and ensuring data integrity.

Application

Protein

Nucleic acid

Vaccine

Polysaccharose

Blood Products

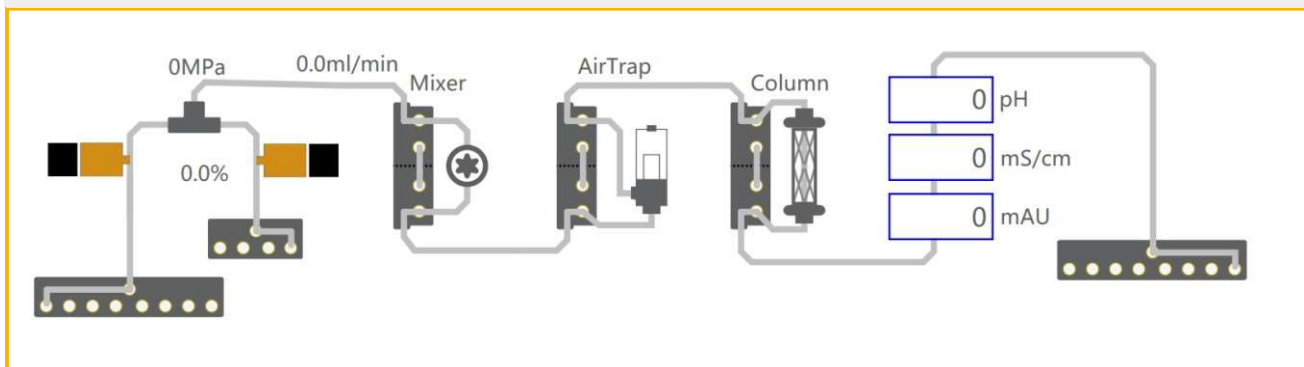
Peptide

Software

Unique AutoPure Pilot600 controls FPLC system with powerful Unique CDSYSTEM chromatography workstation, which can be switched between Chinese and English, with friendly interface, intelligent programming, easy to operate and easy to use.

>>> System Control

Online monitoring data and control system. Visual flow diagram, visible system parameters, shortcut commands, makes operation easy and fast.



>>> Method Editing

With built-in predefined phase library, method can be easily created by dragging and dropping phase modules, this can apply to daily operations and automatic chromatography process. We could modify phase module parameters and save them as customized phase module. It also supports script editing for more complex method editing.



>>> Result Analysis

Chromatograph comparison, peak integration, column efficiency analysis, and result export, support experimental screening and process research with effective data analysis.

>>> Data Storage

Support SQL Server database, remote data storage, automatic backup, ensure data security;

>>> Audit Trail

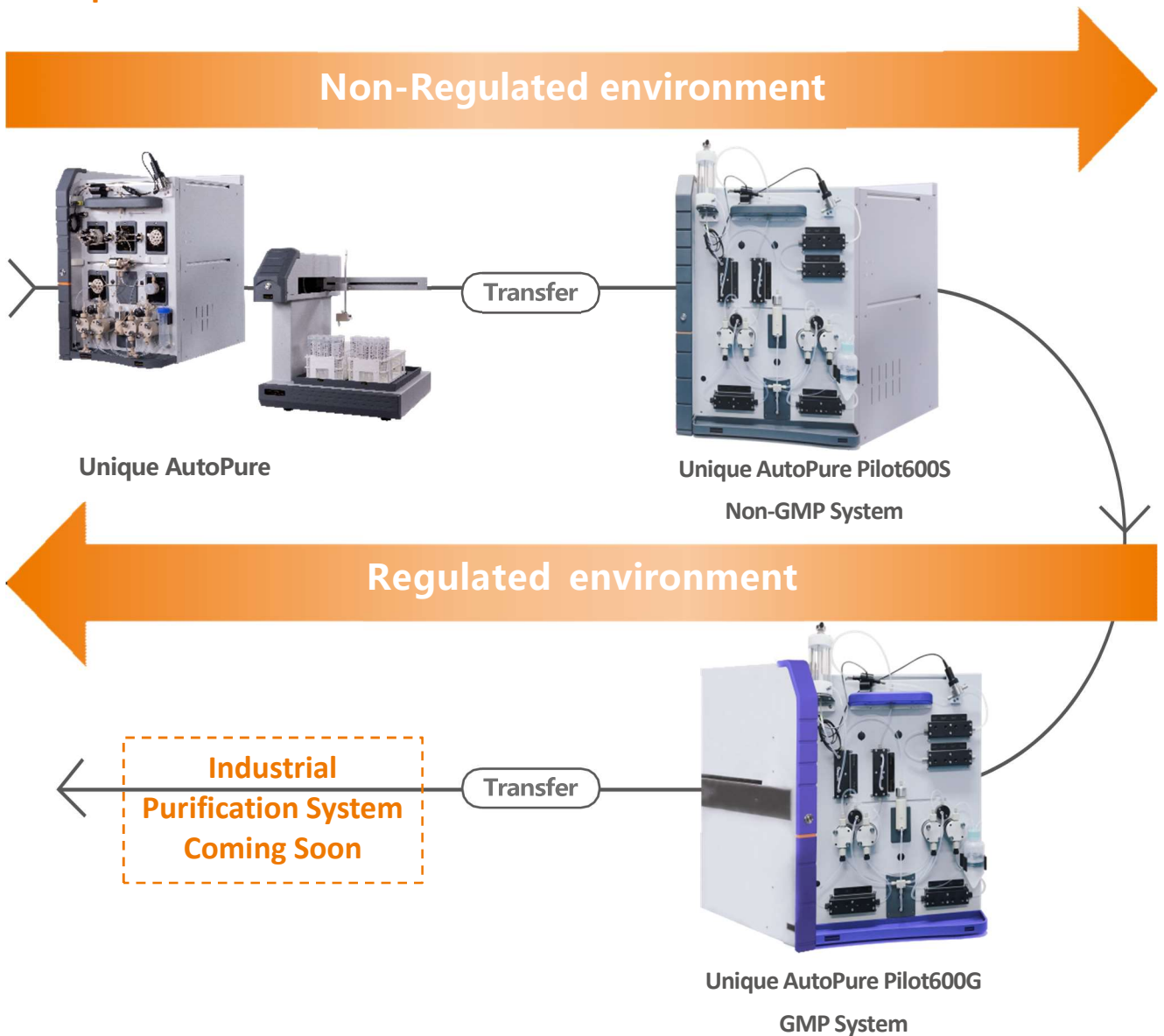
Multi-level user rights management, electronic signature, instrument and data operation record audit trail, compliance with GMP/GLP, FDA 21 CFR Part11 requirements.

Pilot600

AutoPure Pilot600 has standard configuration, but it also can change the configuration or upgrade the module according to your requirements. System can be set up by simply adding or removing modules.

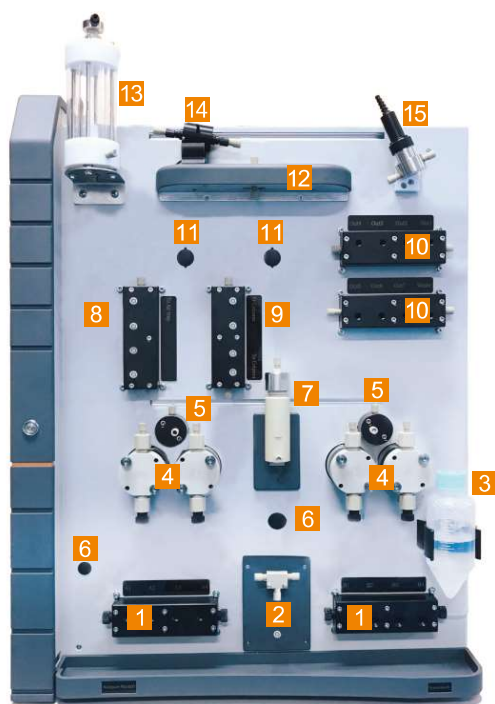
AutoPure Pilot600 can also provide sanitary grade equipment compliance with GMP environment. Wetted parts are made of sanitary grade biological inert materials compliance with GMP standards. We will finish system calibration and performance test before delivery from our factory.

• Unique AutoPure Pilot600 Model-----



Configuration

• Unique AutoPure Pilot600 Configuration



- 1 Inlet Valve
- 2 Pressure Sensor
- 3 Rinse bottle after pump
- 4 System Pump
- 5 Ventilation Valve
- 6 Reserved Bubble Sensor
- 7 Mixer
- 8 Bubble Trap Valve
- 9 Column Position Valve
- 10 Outlet Valve
- 11 Reserved Pressure Sensor
- 12 UV Detector
- 13 Bubble Trap
- 14 Conductivity Detector
- 15 pH Detector

• Unique AutoPure Pilot600 Parameters

System Parameters

System Dimension	L*W*H 600x500x850mm
SystemWeight	65 kg
Control System	Unique CDSsystem
Protection Grade	IP54
Power Supply	100 ~ 240 V, 50 ~ 60 Hz
Working Environment	Temperature: 4°C ~ 35°C, Humidity: 20% ~ 95%, no condensate

System Performance Parameters

System Pump (Double Pump)	<p>A/B Pump Flow range: 4 ~ 600ml/min (Double pump stacking column packing: 4 ~ 1200ml/min) Acceptable range: 5% ~ 95% Pressure range: 0 ~ 2MPa (20bar, 290 psi) Viscosity: 0.7 ~ 10 cp</p>	
UV Detector	<p>280nm Fixed wavelength detector LED light source, Life > 8000h Detection range: - 6 ~ +6AU linear: $\pm 2\%$@0 ~ 2AU Wavelength accuracy: ± 2nm Wavelength precision: ± 1 nm Noise: $\pm 1 \times 10^{-4}$ AU (1S)</p>	<p>DAD Full spectrum detector 200 ~ 400nm variable dual wavelength Wavelength accuracy: ± 2nm Wavelength precision: ± 1 nm Noise: $\pm 1 \times 10^{-4}$ AU (@254nm, 1S)</p>
	<p>Fiber conduction, external flow cell, avoid the influence of light source temperature on protein activity, dual beam design, with high stability. Standard flow cell: 2mm optical path, 20ul volume, Max. Pressure 2Mpa</p>	
Conductivity Detector	<p>Detection range: 0.1mS/cm ~ 999.9mS/cm; Cell volume: 20ul Conductivity accuracy: $\pm 3\%$ or 0.2mS/cm; Built-in temperature sensor, automatic conductivity compensation calibration;</p>	
Temperature sensor	<p>Range: 0 ~ 99°C; Accuracy: $\pm 2^\circ\text{C}$ @ 2°C ~ 50°C</p>	
pH Sensor	<p>Range: 2 ~ 12; Accuracy: ± 0.15</p>	
Inlet	<p>Single pump 4 inlets Double pumps 8 inlets Can be expanded to 12 inlets</p>	
Outlet	<p>Max. 8 outlets</p>	
Column position valve	<p>Single column、3 column positions</p>	
Air bubble trap	<p>Discharge air bubbles in system, online or offline available</p>	
Mixer	<p>Mixing volume: 12ml</p>	
Air bubble sensor	<p>Max. 3</p>	
Pressure Sensor	<p>Each one after A/B pump, one before column, one after column, total four, detection range: 0-2mpa</p>	
Online filter	<p>Filtration, protect chromatography column</p>	

Contract Us

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