

**Model :**

**XM-A12**



## **HPLC System XM-A12**

## FEATURES:

- Easy maintenance
- Online washing device
- Self-priming pump head
- Deuterium lamp
- Advanced design

## Overview

HPLC System XM-A12 operates with a flow range of 0.001 to 9.999 mL/min and uses a dual-piston mechanism for precise fluid delivery. The maximum pressure limit is enhanced using a precise transducer for better accuracy and control. Its programmable solvent compressibility compensation enhances accuracy and performance. Our HPLC system is compatible with micro, analytical, semi-prep, and prep pump heads, offering flexibility for various applications.

## SPECIFICATIONS:

Model	XM-A12
Flow Range	0.001 to 9.999 mL/min
Delivery Method	Double piston (Main & Auxiliary)
Pump Head	±0.3nm
Accuracy	±1% or ±2 µL/min, whichever is greater ±1% or ±1 µL/min, whichever is greater (Micro)
Flow Rate Settings	0 to 0.10 mL/min: 0.001 increment 0.10 to 0.90 mL/min: 0.010 increment 1.0 mL/min and above: 0.10 increment
Precision	0.1% RSD
Maximum Pressure	9999 psi
System Connections	1/16" capillaries

Display	300 mm
UV-Spectrophotometer Wavelength Range	190 to 700 nm
Spectral Bandwidth	6 nm
Wavelength Accuracy	Less than equal to $\pm 1$ nm
Wavelength Reproducibility	Less than equal to $\pm 0.1$ nm
Flow Cell Volume	8 $\mu$ L
Optical Path	10 mm
Dynamic Noise	Less than equal to $\pm 0.75 \times 10^{-5}$ AU (Methanol, 1 mL/min, 254 nm, 20°C)
Static Noise	Less than equal to $\pm 0.5 \times 10^{-5}$ AU (Empty pool, Response time 1s, 20°C)
Dynamic Drifting	$\leq \pm 1 \times 10^{-4}$ AU (Methanol, 1 mL/min, 254 nm, 20°C)
Static Drifting	$\leq \pm 0.5 \times 10^{-4}$ AU (Empty pool, Response time 1s, 20°C)
Qualitative Repeatability	RSD $\leq 0.1\%$
Quantitative Repeatability	RSD $\leq 0.5\%$
Power Supply	85 to 264 VAC, 47 to 63 Hz, 60 Watts
Pump Dimensions	130 $\times$ 260 $\times$ 420 mm
UV- spectrophotometer Dimensions	130 $\times$ 260 $\times$ 420 mm
Weight	11 kg

### Applications :

HPLC System XM-A12 is widely used in high-performance liquid chromatography (HPLC), laboratory chemical reactions, fusion processes, and chromatography applications.

### Standard Accessories :

Liquid Constant Flow Pump 2 sets  
UV-VIS Spectrophotometric Detector 1set  
Solvent Tray 1set  
Mixer 1set  
Manual Injector 1set  
Chromatography Data System 1set  
Chromatography Column 1set

### Optional Accessories :

- 4.6 × 250 mm, 5µm Sodium Benzoate Column 2 pcs
- 4.6 × 250mm, 5µm Di-Sulphonates/Sulfonates Column 2 pcs
- Pack of 100 pcs Syringe Filters 4 packs
- Pack of 200 pcs Membrane Filters 4 packs
- Pack of 100 pcs Sample Vials 1pack
- Water Purification System (HPLC Grade) 1pc
- Mobile Phase Degassing Unit (HPLC Grade) 1pc
- Microfiltration System (HPLC Grade) 1pc

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