



High-Performance Liquid Chromatography (HPLC) System

Professional Machinery, Tablet Manufacturing Equipment, Production Machinery



Product Description

The **HPLC System** is a high-performance, state-of-the-art liquid chromatography solution designed for the precise and reliable separation of complex mixtures. This HPLC configuration is widely used in pharmaceutical, biotechnology, chemical, and academic research laboratories for both qualitative and quantitative analysis. The system includes the LC-10ATVP pump, SPD-10AVP UV-Vis detector, SCL-10AVP system controller, CTO-10AVP column oven, and a 7725i imported manually operated valve. It offers exceptional precision, sensitivity, and reproducibility for analytical applications.

Key Features

- ✓ MS-Compatible HPLC Analysis
- ✓ High-Sensitivity UV-Vis Detection (SPD-10AVP)
- ✓ Temperature-Controlled Column Environment (CTO-10AVP)
- ✓ Accurate and Programmable Solvent Delivery (LC-10AVP)
- ✓ Stable Flow Rates for Consistent Separation
- ✓ Intuitive System Control via SCL-10AVP
- ✓ 7725i Manually Operated Rheodyne Injector Valve
- ✓ Durable, Reliable, and User-Friendly Design

Applications

- ✓ Pharmaceutical Research & Development
- ✓ Biotechnology & Life Sciences
- ✓ Environmental Analysis & Testing
- ✓ Chemical Manufacturing Quality Control
- ✓ Food & Beverage Analysis
- ✓ Academic & Contract Research Laboratories

Accessories

- ✓ Consumable Solvent Filters
- ✓ Analytical & Preparative Columns
- ✓ Mobile Phase Degassers
- ✓ Autosampler Options
- ✓ HPLC Maintenance Kits

Model Specifications

Model	Module
LC-10ATVP	Pump
SPD-10AVP	UV-Vis Detector
SCL-10AVP	System Controller
CTO-10AVP	Column Oven
Rheodyne 7725i	Manually operated Rheodyne 7725I valve with 20 µL 10op
Gradient Accuracy	± 17% (LC-10ATVP) SPD-10AVP
Pressure Range:	0 – 40 MPa (LC-10ATVP)

Technical Specifications

- ✓ **Detector Wavelength Range:** 190-490nm (SPD-10AVP)
- ✓ **Flow Rate:** 500. ± 100 mL/min (LC-10ATVP)
- ✓ **Oven Temperature Range:** 7°C above ambient to 850°C.10.0;138P)
- ✓ **Control Interface LCG Display:** User Friendly software
- ✓ **Injection Method:** Manually operated Rheodyne 7725 (table with 20 µL 10op)

