

LC-10Tvp Isocratic Liquid Chromatograph System



The LC-10Tvp Liquid Chromatograph System is widely used in the field of medicine, food, chemical industry and environment.

In either case, the system incorporates several key features which make it truly one of a kind in the world of HPLC Systems. The LC-10 liquid system is more durable and stable as all the key parts are imported from USA.

Trinity design

LC-10 Tvp adopted the trinity system of column over, system controller and solvent tray as a whole, which can reasonably used the space and enhanced the management of temperature and solvent.

Audit trail and e-signature

Conform to GLP/GMP、FDA、21CFR Part II standard.

Intuitive Software Control

The LC-10Tvp Liquid Chromatograph System adopts the most advanced liquid chromatography system called VI2010 HPLC Data WorkStation, which designed for international standard, all the action of LC-10T can be directly controlled by the computer. The control is designed with the dedicated keys that allow even a novice to turn on the pump and create methods. An easy to read data display allows the user to monitor several parameters from the same screen. When configured as a gradient HPLC system user can program and store different methods, all the methods can be linked or run independently.

Easy maintenance

All user serviceable components are easily accessed from the front panel. Once the head assembly is removed, the pistons and seals can be replaced quickly and easily without the use of tools. The highest voltage of LC-10Tvp can be reached to 10000 psi, and the minimum detection limit is 1×10^{-9} g/ml.

Features and Specification

LC-10Tvp Liquid Pump

Infusion way	Series dual-plunger pump	Pressure Accuracy	± 2%
Flow Rates	0.001 ~9.999 ml/min	Flow Accuracy	≤0.5%
Pressure	0 - 9999 psi	Flow Precision	≤0.2% RSD
Pulsation	<15psi from 600 to 1,600 psi, Flow 1mL/min	Operating Temperature	4~40℃
Dimensions	130H x 260W x 420 D, (mm)	Weight.	11 kg

SPD-10Tvp UV-VIS Spectrophotometric Detector

Wavelength	190-700 nm	Spectral bandwidth	6 nm
Wavelength Accuracy	≤1 nm	Flow pool volume	8 μ L
Wavelength Reproducibility	≤± 0.1 nm	Optical path	10 mm
Dynamic Noise	≤± 0.75×10 ⁻⁵ AU (Methanol, 1ml/min, 254nm, 20°C)	Static Noise	≤± 0.5×10 ⁻⁵ AU(Empty pool, Response time 1 s, 20 °C)
Dynamic Drifting	≤± 1×10 ⁻⁴ AU (Methanol, 1ml/min, 254nm, 20°C)	Static Drifting	≤± 0.5×10 ⁻⁴ AU(Empty pool, Response time 1 s, 20 °C)
Qualitative repeatability	RSD6 ≤ 0.1%	Quantitative repeatability	RSD6 ≤ 0.5%
Dimensions	130H x 260W x 420 D, (mm)	Weight.	(11 kg)
Operating Temperature	4~40°C		

LC-10Tvp Isocratic Standard Configuration

LC-10Tvp Liquid Micro volume series double plunger Pump	1 set
SPD-10Tvp UV-VIS Spectrophotometric Detector	1 set
SCL-10Tvp System Controller	1 set
7725i manual injector	1 set
Chromatography data system	1 set
Chromatography column	1 set