

LC-1000B
BINARY HPLC SYSTEM



High-Performance Liquid Chromatography (HPLC)

SPECIFICATIONS (PUMP)

Flow Range	0.001~10.000ml/min
Delivery method	Double piston(Main & Auxiliary)
Pump Head	10m1 SST/Peek analytical
✓ Accuracy	± 1% or ±2µl/min, whichever is greater ± 1% or ± 1µl/min, whichever is greater (Micro)
✓ Flow rate settings	0-0.10 mL/min. 0.001 inc. 0-0.090 mL/min. 0.010 inc. 1.0 mL/min. + 0.10 inc.
✓ Precision	0.25% from 0.1 mL/min. to 10 mL/min. at 20 deg C 0.25% from 0.05 mL/min. to 4 mL/min. at 20 deg C (Micro)
✓ Pmax	6000psi
✓ System connections	1/16" capillaries
✓ Dimensions	410mm x 180mm x 270mm
✓ Weight	7.3kgs
✓ Power Input	85 to 264 VAC, 47 to 63 Hz, 60 Watts
✓ Display	320mm
✓ Control	Stand alone mode using front panel

SPECIFICATIONS (UV DETECTOR)

✓ Wavelength	190-700nm
✓ Spectral bandwidth	6 nm
✓ Wavelength Accuracy	±1 nm
✓ Flow pool volume	10µl
✓ Wavelength Reproducibility	± 0.5 nm
✓ Optical path	10 mm
✓ Dynamic Noise	±2.5×10 ⁻⁵ AU (Methanol, 1ml/min, 254nm, 20°C)
✓ Static Noise	± 1×10 ⁻⁵ AU (Empty pool, Response time 1 s, 20 °C)
✓ Dynamic Drifting	± 2.5×10 ⁻⁴ AU (Methanol, 1ml/min, 254nm, 20°C)
✓ Static Drifting	± 1×10 ⁻⁴ AU (Empty pool, Response time 1 s, 20 °C)
✓ Qualitative repeatability	RSD ≤ 0.1%
✓ Quantitative repeatability	RSD ≤ 0.5%
✓ Dimensions	160H x 260W x 350 D, (mm)
✓ Weight.	6kg
✓ Operating Temperature	4-40°C
✓ Minimum detection concentration	≤1×10 ⁻⁸ g/mL(Naphthalene/methanol solution)
✓ Linear range	≥104

SALIENT FEATURES

- ✓ Self-priming pump head requires no manual priming
- ✓ Patented "Floating Pump Seal" designed for extended seal wear
- ✓ Available with micro, analytical, semi-prep, and prep pump heads
- ✓ Programmable solvent compressibility compensation
- ✓ Easy maintenance and service for all wetted parts
- ✓ Integral prime/purge assemble for quick solvent change



ACCESSORIES

➤ High Pressure Constant flow Pump	: 2 sets
➤ UV Detector	: 1 sets
➤ Manual injection	: 1 sets
➤ Gradient mixer	: 1 sets
➤ N2000 Chromatography workstation	: 1 sets
➤ Injector	: 1 sets
➤ C-18 Chromatography column	: 1 sets
➤ Double pump controllers	: 1 sets
➤ Injector Holder	: 1 sets
➤ Toolkit	: 1 sets