



KLABS HPLC System



Product Description

KLABS KHPLCS-3202 HPLC System is a high precision Binary System High Performance Liquid Chromatography instrument designed for analytical and research laboratory applications. The system features programmable pump control, floating plunger seal technology, UV detector system and stand-alone operation for reliable and stable chromatographic analysis.

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 assembly for quick solvent change
- Binary HPLC System
- Accurate & Stable Performance
- LCD Display System
- Compact Laboratory Design

Applications & Uses

- Pharmaceutical Industries
- Research & Development Laboratories
- Biotechnology Laboratories
- Chemical Industries
- Environmental Testing Laboratories
- Food & Beverage Testing
- Clinical Laboratories
- Analytical Chemistry Applications
- Chromatography Analysis
- Quality Control Laboratories
- Academic & Educational Institutes
- Routine Laboratory Testing



LCD
DISPLAY



ACCURATE
& STABLE



SOFTWARE
CONTROL SYS.



EASY
OPERATION



USB
CONNECTIVITY

Accessories

- Instruction Manual
- Rheodyne injector 7725i (USA)
- Micro Syringe
- Column C-18
- Software Manual
- Software
- USB Data Cable for PC connectivity
- Mains Lead
- Dust cover
- Tool kit

Technical Specifications

Specifications (Pump)

Parameter	Specification
Product Name	KLABS HPLC System
Model Number	KHPLCS-3202
Flow Range	0.001 — 9.999 ml/min
Delivery method	Double piston (Main & Auxiliary)
Pump head	10ml SST/Peek head
Accuracy	± 1% at 24µl/min, whichever is greater = 1% or ± 1µl/min, whichever is greater (Micro)
Flow rate settings	0 -0.10 ml/min. 0.001 inc. 0.10 - 0.90 ml/min 0.010 inc. 1.0 ml 10.0 ml /Min.+ 0.10 inc
Precision	0.25% from 0.1 ml/min. to 10 ml/min. at 20 deg C
Precision (Micro)	0.25% from 0.05 ml/min. to 4 ml/min. at 20 degrees C (Micro)
Pmax	6000 psi
System connections	1/16" capillaries
Weight	7.3kg
Power input	85 to 264 VAC, 47 to 63 Hz, 60 Watts
Control	Stand alone mode using front panel

Specifications (UV Detector)

Parameter	Specification
Wavelength	190-700 nm
Spectral bandwidth	6 nm
Wavelength Accuracy	≤ ± 1 nm
Wavelength Reproducibility	≤ ± 0.5 nm
Flow pool volume	10 µ L
Optical path	10 mm
Dynamic Noise	≤2.5x10 AU (Methanol, 1ml/min 254nm)
Static Noise	≤ ±1 <10-5AU (Empty pool. Response time 1 s)
Dynamic Drifting	≤ ± 2.5x10-4 AU (Methanol, 1ml/min, 254nm)
Static Drifting	≤ ± 1x 10-4 AU (Empty pool, Response time 1 s)
Qualitative repeatability	RSD ≤0.1%
Quantitative repeatability	RSD ≤0.5%
Dimensions	160H × 260W × 350 D. (mm)
Weight	6kg
Minimum detection concentration	≤ 1x10-8g/mL (Naphthalene/Methanol Solution)