LABTRON

HPLC system

LHLC-A11

www.labtron.com info@labtron.com

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This model of HPLC gradient system is equipped with 2 sets of high-pressure constant-current pump and ultraviolet detector. Its microprocessor reciprocating plunger pump comes with functions such as high working pressure, low pulse rate. This gradient HPLC model meet the needs of conventional analysis to micro flow analysis.

Features

- More precise optical system for the high precision and small offset
- Improved light energy through the parallel double cone flow cell
- Significant reduction in the static noise of the instrument and signal drift

Applications

This HPLC system has applications in the field of biochemistry, chemistry, pharmacology for chemical analysis, poison analysis and in protein food detection, medicine testing and polymer, environmental analysis

Specifications

Model no.	LHLC-A11
High pressure pump (Two sets of pump)	
Flow rate range	0.001-9.999mL/min (0.001mL/min increments)
Pressure range	Error≤0.5MPa (0-42MPa)
Flow rate precision	RSD<0.06%
Pulsation	≤0.1MPa (flow rate 1ml/min, Pressure 5-10MPa)
Qualitative analysis	RSD 6≤0.1% (naphthalene methyl alcohol solvent)
Quantitative repeatability	RSD 6≤0.3% (naphthalene methyl alcohol solvent)
Flow rate setting error	Ss≤2% (1mL/min water, 5-10MPa room temperature)
Air tightness of pump	Pressure 42MPa, 10min time, Pressure drop <0.5MPa
Mixing accuracy	±1%
Mixing precision	±0.2%
Size (W*H*D)	450×300×160mm

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UV Detector	
Wavelength range	190-680nm
Flow cell	8μL
Spectrum band width	8nm
Baseline noise	≤±0.25×10^{-5} AU (empty cell)
Wavelength accuracy	±1nm
Baseline drift	≤±0.4×10^{-4} AU (empty cell)
Wavelength precision	<0.1nm
Limit of detection	3×10^{-9} g/mL (naphthalene methyl alcohol solvent)
Size (W*H*D)	450×300×160mm

Labtron Equipment Ltd

Sentinel House, Ancells Business Park,
Harvest Crescent, Fleet
GU51 2UZ, UK
Telephone: 01252 413773
www.labtron.com • info@Labtron.com