



HPLC system

LHLC-A10

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This HPLC system is equipped with high-pressure constant-current pump and UV detector. Pressure pulsation is controlled by diaphragmatic damper in seconds. The UV detectors helps in identification of samples and elutes that are colourless, odourless in nature. There is auto boot detection function available in this HPLC system.

Features

- ✔ Limit baseline noise can be ensured using electronic pulse suppression technique
- ✔ High pressure single pump
- ✔ Easy to change gasket ring & automatic washing function for the column
- ✔ User-friendly software for smooth operations

Applications

The HPLC has applications in separation of mixture of compounds in chemical analysis, poison analysis, environmental analysis, protein food detection, medicine testing, and polymer analysis.

Specifications

Model no.	LHLC-A10
High pressure pump (single pump)	
Flow rate range	0.001-9.999mL/min (0.001mL/min increment)
Pressure range	Error \leq 0.5MPa (0-42MPa)
Flow rate precision	RSD $<$ 0.06%
Pulsation	\leq 0.1MPa (flow rate 1ml/min, Pressure 5-10MPa)
Qualitative analysis	RSD $6\leq$ 0.1% (naphthalene methyl alcohol solvent)
Quantitative repeatability	RSD $6\leq$ 0.3% (naphthalene methyl alcohol solvent)
Flow rate setting error	$S\leq$ 2% (1mL/min water, 5-10MPa, room temperature)
Mixing accuracy	\pm 1%
Mixing precision	\pm 0.2%
Size (W*H*D)	450 \times 300 \times 160mm

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



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