

HIGH PRESSURE LIQUID CHROMATOGRAPHY (HPLC), RIC-172



FEATURES:

1. RIC-172 HPLC has modular design with maximum accuracy & reproducibility.
2. This is very easy to use and maintenance is very less.
3. Rich function PC control and chromatograph data processing software makes it simple for instrument control and data processing.
4. High pressure solvent delivery pump adopting electronic pulsation suppression technology displacing traditional mechanical buffer to thoroughly solve the problem caused by frequent leakage of mechanical buffer, and to reduce the dead volume of solvent delivery system to the minimum.
5. The wavelength positioning of Multi-wavelength UV-Vis detector is realized via the grating's turning which is directly controlled by the SCM (Single Chip Mickey). It has taken place the conventional sine-pole mechanics (monochromatic), eliminating the error of wavelength positioning brought by the mechanical abrasion and returning error of the Guide-screw transmission, and also avoiding the monochromator's hitting accident which might be brought by false operation.

SPECIFICATIONS OF BINARY HIGH PRESSURE GRADIENT SYSTEM :

High pressure pump

Advanced double-piston pump and electronic residual technique, greatly improves the flow rate precision and repeatability of the pump.

Flow rate range: 0.001~9.99mL/min in 0.001mL/min increments

Structure: double-piston pump

Flow rate precision: <0.5%

Repeatability: <0.1%

Pressure range: 0~40MPa

Gradient mode: a low pressure gradient system up to 4 solvents and a high pressure gradient system up to 2 solvents

Remote control: RS-232 connector, PC control

System protection: Soft start, P min and P max adjustment

Display: LCD, 2×16

Dimensions (W×H×D): 350×190×210mm

UV-Vis detector

Time-programmed wavelength change function, realizing online wavelength switch.

Baseline drift: 15×10⁻⁵AU/h at 240nm, t=1.0s

Baseline noise: 2×10⁻⁵AU at 240nm, t=1.0s

Wavelength accuracy: ±1nm

Time constants: 0.1/0.2/0.5/1.0/2.0/5.0/10.0

Analog output: ±1V

Auto-zero range: full scale

Light source: deuterium lamp

Display: LCD, 2×16

Dimensions (W×H×D): 350×190×210mm

RI Detector

Construction

Refractive index range

Drift

Range

Linearity

Noise

Response time

Cell Volume

Maximum Flow Rate

Pressure Rating

Deflection type

1.00-1.75

200nRIU/h(Pure water; 1mL/min, PURGE OFF)

0.25-512μRIU

More than equals to 600μRIU

Less than equals to 2.5n RIU (water, TC; 1.5sec)

0.1, 0.25, 0.5, 1, 1.5, 2, 3, 6sec

8μ L

10mL/min (mobile phase: pure water)

50k Pa

Column Oven

Wavelength range: 190~740nm, $\Delta\lambda \leq 8\text{nm}$

Highest temperature establishing, overrun temperature alarming.

Control mode: PID

Safety setting-up: overrun temperature limit alarming

Display: 4 bits LED (red-actual temperature, green-establishing temp.)

Temperature control range: ambient~100°C

Temperature accuracy: ±0.3°C

Column: 2

Remote control: RS-232 connector, PC control

Inside dimensions (W×H×D): 50×380×50mm

Outside dimensions (W×H×D): 120×500×230mm

PC control and Chromatograph data processing system

Complete PC control function, realizing parameter control and real-time monitoring to all parts, including column oven.

Analytical task can be completed in single sampling, with automatic processing of chromatograph data and obtaining perfect spectra.

Backstage operation function enables data processing to the existing spectra, while analysis is going on.

The gradient program of the pump and wavelength time-program of the detector can be established.

The test report format can be flexibly modified.

Timer turn-off function is provided.

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