

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC), RIC-171-173



FEATURES:

RIC-171 to 173 HPLC has modular design with maximum accuracy & reproducibility.

Up to 9000PSI operational pressure. Higher working pressure extends the dynamic range in the application of chromatographic analysis, and improves the durability and reliability of the entire system.

Up to 2.5 AU linear range of the detector, allows accurate analysis for widely varying sample concentrations,

either with high concentrated substance(s) or trace component(s).

Up to 100Hz data sampling rate, allows sharper peak(s) detection and enables ultra fast analysis.

Proprietary automatic solvent-compressibility compensation and pulsation dampening technologies enable excellent analysis reproducibility.

As low as 5×10^{-9} g/mL detection limit, creating higher sensitivity with lower noise floor.

Proprietary pump design and precision fabrication process result in excellent system durability.

SPECIFICATIONS : High pressure pump

High pressure pump

Flow rate range: 0.001~10.00mL/min in 0.001mL/min increments

Flow rate precision: $\pm 0.5\%$ (@1ml/min. of water)

Repeatability: $\pm 0.1\%$

Pulsation: $\pm 1\%$

Pressure range: 9000psi @0 to 2ml/min.

: 6000psi @ 2 to 5ml/min.

: 3000psi @5 to 10ml/min.

Display: LCD, 2×16

Dimensions (W×H×D): 350×190×210mm

Gradient Accuracy: $\pm 0.5\%$ (Not applicable in Isocratic model)

Gradient Reproducibility: $\pm 0.2\%$ SD (Not applicable in Isocratic model)

Remote control: RS-232 connector, PC control

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

UV-Vis detector

Pressure range:9000psi @0 to 2ml/min.

: 6000psi @ 2 to 5ml/min.

: 3000psi @5 to 10ml/min.

Gradient Accuracy: $\pm 0.5\%$ (Not applicable in Isocratic model)

Gradient Reproducibility: $\pm 0.2\%$ SD (Not applicable in Isocratic model)

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

Evaporative Light Scattering Detector

Light Source LED 470nm

Detective high-sensitive photomultiplier tube

Evaporation Temperature RT - 100 ° (increment 1°)

Flow Rate 0.1mL/min – 2.5mL/min (standard)

Air Consumption < 3.0 L/min

Air Required > 5 L/min nitrogen gas or air? 2 -4.5Bar

Refractive Index Detector:

Refractive Index range 1.00 ~ 1.75

Measuring range 0.25 ~ 512 μ RIU

Linearity range ± 600 μ RIU

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

Auto zero Full auto zero

Cell volume 8 μ L

Flow rate (Typical) 0.2 ~ 3.0mL/min

(Max.) 10mL/min(solvent: pure water)

Max. pressure 50kpa

Temp. control OFF, 30 ~ 55° (1° step), 77° Temp. fuse

Noise = 2.5 nRIU (Pure water, response: 1.5sec)

Column Oven

Highest temperature establishing,
overrun temperature alarming.

Control mode:PID

Temperature control range: ambient~100°C

Temperature accuracy: ± 0.3 °C

Safety setting-up: overrun temperature limit alarming

Display: 4 bits LED

(red-actual temperature, green-establishing temperature)

Ordering Info. Isocratic HPLC; Model No.: RIC-171, Supplied with High pressure pump, detector, Workstation, Inject valve, C18.

Binary HPLC; Model No.: RIC-172, Supplied with High pressure pump, detector, Workstation, Inject valve, C18.

Quaternary HPLC; Model No.: RIC-173, Supplied with High pressure pump, detector, Workstation, Inject valve, C18.

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