



Preparative HPLC-705

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Preparative HPLC-705 is equipped with 4 pump head variation and a UV or RI detector with a wavelength range of 190 to 400 nm and 400 to 800 nm. Built in multi positioned fraction valve and controlled fractionation optimizes controlled fraction collection and solvent recycling. With a column size of 10 x 1000 mm the retention, resolution and selectivity is optimized

Features

- Solvent flow rate is 500 ml / min
- Multiple chromatogram view
- 27 integrated programmable parameters like peak width, tangent slope etc.
- Compatibility for medium and low pressure application
- 10 points pressure calibration for pressure linearity
- Auto apply of mathematical operations to chromatograms
- Automated sequential commands post batch run
- External pump control by panel or computer software
- Addition of tools for detector controlled fraction collection and solvent recycling
- Controlled fractionation with option of manual control during the run
- Error alarm function for over pressure, under pressure and leakage

Applications

Used for purification of peptides and proteins, separation of high molecular mass compounds, separation of protein mixtures, qualitative and quantitative determination of a compound, automated fraction re-analysis

Specification

Model No	HPLC-705
Dimension	Dimension 750 x 860 x 1280 mm (100 ml , 250 ml , 500 ml , 1000 ml)
	810 x 950 x 1310 mm (3 L)
Wetted material	316 L and PTFE
Power	< 1500 W
Mobility	With castor

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Pump Specification

Model No	SHP-A1
Pump head capacity with max pressure	100 ml ; 30 MPa
	250 ml ; 50 MPa
	500 ml ; 10 MPa
	1000 ml ; 10 MPa
	3000 ml ; 10 MPa
Pressure pulsation	1 % at 10 MPa
Flow rate accuracy	± 1 %
Flow rate reproducibility	≤ 0.5
Gradient accuracy	± 2 %
Pump inlet tube	∅ 4 (100 ml , 250 ml , 500 ml)
	∅ 6 (1000 ml)
	∅ 10 (3000 ml)
Pump outlet tube	1/8 th (100 ml , 250 ml , 500 ml)
	DN4 (1000 ml)
	DN6 (3000 ml)

Detector Specification

Model No	SHP-B1
Wavelength range	190 ~ 400 nm / 400 ~ 800 nm
Wavelength accuracy	± 2 nm
Wavelength reproducibility	0.4 nm
Bandwidth	8 nm
Baseline noise (Au)	3 x 10 ⁻⁵
Baseline draft (Au / h)	1 x 10 ⁻⁴
Optical path	10 mm
Flow cell	PEEK

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Fraction valve Specification

Model No	SHP-C1
Valve type	Ball-valve (8 to 16 port)
Valve head material	Stainless steel / PEEK
Capillary connection	1" / 4"
Maximum pressure stability	10 bar
Driver mode	Air or electric