

Analytical HPLC-A7835



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Analytical HPLC-A7835 system is equipped with a flow rate range of 0.0001 to 10 ml per minute. Integrated with a single and dual wavelength UV-Vis detector with a range of 190 to 800 nm that analyzes sample's absorption at different wavelengths and a high pressure pump providing continuous consistent flow. Built in column heater provides reproducible retention time.

Features

- ◆ Compression compensation ensuring gradient repeatability
 - ◆ Low pressure gradient
 - ◆ Detector (Deuterium or tungsten lamp)
 - ◆ Simultaneous working of deuterium and tungsten lamp
 - ◆ Automatic sample injector (Autosampler)
 - ◆ External pump control by panel or computer software
 - ◆ Auto save last detected records by the detector
 - ◆ 10 point calibration pump for linear pressure control
 - ◆ Error alarm function for over pressure ,under pressure and leakage
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Applications

Used in pharmaceutical analysis, food nutrient analysis of amino acids and sugars, detection of food contaminants, environmental pollutant and chemical product purity analysis

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Pump Specifications

Model No	HPP-B1
Flow rate range	0.0001 ~ 10 ml / min
Maximum pressure	42 MPa , 0 ~ 5 ml / min
Column size	4.6 x 250 mmI1
Sample size	5 µm
Pressure pulsation	≤ 1.5 % at 10 MPa
Flow rate accuracy	± 0.2 % at 1 ml / min
Flow rate repeatability %	≤ 0.15
Gradient accuracy %	± 2
Gradient repeatability %	≤ 0.2
Dimension	450 x 260 x 190 mm
Power supply	90 V ~ 240 V
Weight	11.2 kg

Detector Specifications

Model No	HPD-B2
Wavelength range	190 to 800 nm
Wavelength accuracy	± 0.75 nm
Wavelength repeatability	0.2nm
Band width	8 nm
Optical path	10 nm
Deuterium lamp	190 ~ 400 nm
Tungsten lamp	400 ~ 800 nm
Baseline noise (Static) Au	≤ ± 0.5 x 10 ⁻⁵
Baseline drift (Static) Au / h	≤ 1.5 x 10 ⁻⁴
Minimum detection limit	≤ 4 x 10 ⁻⁸
Power	100 W
Power supply	90 V / 50 ~ 60 Hz
Dimension	460 x 260 x 190 mm
Weight	9.2 kg

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Standard Accessories

Model No	ASI-B10
Syringe volume	1 µl , 2.5 µl , 10 µl , 100 µl , 250 µl, 500 µl
Tray capacity (removable rack)	176 vials , 2 ml
Injection Speed	1 ~ 500 µl / s
Injection mode	Full loop / partial loop
Analysis time	0 ~ 999 min
Wait time	12 s
RSD (partial loop)	≤ 0.5 %
RSD (full loop)	≤ 0.25 % (typically ≤ 0.15 %)
Linearity	≥ 0.9999
Carry over	≤ 0.05 % (with standard wash)
Power	55 W
Dimension	310 x 700 x 690 mm
Weight	15 kg

Accessory	Quantity
Pump	2
UV-Vis detector (without flow cell)	1
Analytical flow cell	1
Injection valve	1
20 µl sample loop	1
4.6 x 250 mm (5µm) analytical column	1
Solvent tray	1
Binary gradient kit	1
Mixing chamber	1

Optional Accessories

Accessory	Quantity
Autosampler	1
Fraction collector	1
Column oven	1