



# ***Analytical HPLC-A7832***

# Analytical HPLC-A7832

Analytical HPLC-A7832 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 )
- ◆ Automatic sample injector ( Autosampler )
- ◆ 10 point calibration pump for linear pressure control
- ◆ Error alarm function for over pressure, under pressure and leakage

## Applications

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

## Specifications

Model No	HPP-A1
Flow rate range	0.0001 ~ 10 ml / min
Maximum pressure	50 MPa , 0 ~ 2 ml / min
Column size	4.6 x 250 mm $\phi$
Sample size	5 $\mu$ m
Pressure pulsation	$\leq$ 1 % at 10 MPa
Flow rate accuracy	$\pm$ 0.15 % at 1 ml / min
Flow rate repeatability %	$\leq$ 0.1
Gradient accuracy %	$\pm$ 1.5
Gradient repeatability %	$\leq$ 0.2
Dimension	460 x 310 x 180 mm
Power supply	90 V
Weight	11.6 kg

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## Optional Accessories

Model No	HPD-A20	HPD-A21
Wavelength range	Single wavelength ( 190 to 800 nm )	Dual wavelength ( 190 to 800 nm )
Wavelength accuracy	± 0.5 nm	± 2 nm
Wavelength repeatability	0.15 nm	0.3 nm
Band width	8 nm	8 nm
Optical path	10 nm	10 nm
Deuterium lamp	190 ~ 400 nm	190 ~ 400 nm
Tungsten lamp	400 ~ 800 nm	400 ~ 800 nm
Baseline noise ( Static ) Au	$\leq \pm 0.35 \times 10^{-5}$	$\leq \pm 0.5 \times 10^{-5}$
Baseline drift ( Static ) Au / h	$\leq 1 \times 10^{-4}$	$\leq 1.5 \times 10^{-4}$
Minimum detection limit	$\leq 4 \times 10^{-8}$	$\leq 4 \times 10^{-8}$
Power	100 W	100 W
Power supply	90 V / 50 ~ 60 Hz	90 V / 50 ~ 60 Hz
Dimension	460 x 315 x 180 mm	460 x 315 x 180 mm
Weight	9.5 kg	9.5 kg

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## Autosampler Specifications

Model No	ASI-A10
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

## Standard Accessories

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