

FL2200 High Performance Liquid Chromatograph

*High stability
Most universal
Easy operational
Very competitive price
Excellent after-sales service*

Instrument feature

Double beam monochromator and dual lens flow cell to pursue high sensitivity

World-famous deuterium lamp and photocell, double beam monochromator with 1200 line/mm concave raster, precise double lens flow cell, wave length adjustment controlled by high-accuracy microprocessor, 24-digit A/D with two-circuit high speed sampling, to guarantee low noise, low drifting and high sensitivity.

Original-created pressure feedback control system to reduces the system dead volume at maximum level

Adopting advanced pressure feedback control system and abandoning pipeline mixer with big dead volume, not only reduce the flow path dead volume greatly, but also enhance pump flux stability due to pressure feedback speed shift technique.

Flexible modular structure, multi-separations and analysis pattern

Isocratic separation pattern, gradient separation pattern, time-flux procedure separation pattern, single wavelength analysis pattern, off-flow wave length scanning analysis pattern and time-wavelength procedure analysis pattern are available.

FL2200 liquid chromatograph workstation

Owning intellectualized supervisory system, self-checking, self-adjustment function.

UV detector

- Wavelength range: 190~700nm
- Wavelength precision: ± 1 nm
- Wavelength repeatability: 0.1nm
- Dynamic baseline noise: $\leq 1 \times 10^{-5}$ AU (wavelength 254nm, flow velocity 1ml/min, pure methanol)
- Dynamic baseline drift: $\leq 2 \times 10^{-4}$ AU (wavelength 254nm, flow velocity 1ml/min, pure methanol)
- Detection limit: $\leq 4 \times 10^{-9}$ g/ml (wavelength 254nm, flow velocity 1ml/min, pure methanol, sample: naphthalene)
- Spectrum bandwidth: 8nm
- Flow cell volume: 8 μ l
- Optical distance: 10mm

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Pump



Isocratic



Binary gradient

- Tandem-style double-plunger reciprocating pump
- Flow range: 0.001~9.999ml/min
- Increment/step: 0.001ml
- Flow precision $\leq 0.1\%$ RSD
- Max work pressure: 42MPa(420bar)
- Pressure fluctuation: under pressure range, when 1mL/min, < 10 mV
- Compressible compensation: According to mobile phase auto adjustment or user choice
- Material: SS for non-corrosive pump head
- Online washing for plunger to prevent abrasion of plunger and seal due to buffer salt dissolve-out, improving life expectancy and stability
- Discard big buffer and reduce dead volume via using innovative pressure feedback and capillary technology
- Floating plunger system to correct mechanical processing deviation

Column oven

- Temperature: room temp. $+5^{\circ}\text{C} \sim 100^{\circ}\text{C}$
- Constant temp. tolerance: $\pm 0.1^{\circ}\text{C}$
- Temperature repeatability: $\pm 0.1^{\circ}\text{C}$
- Absolute precision: $\pm 0.1^{\circ}\text{C}$ at 50°C
- Resolution: 0.1°C
- Double-row LED screen to indicate setting temp. and actual temp.
- Big room can install 2 LC column



Basic info

- Dimension: 450*400*Xmm(L*W*H)
- Net weight: 30kg(Isocratic), 50kg(Binary gradient)
- Power: 350W(Isocratic), 450W(Binary gradient)
- Voltage: AC220V ± 22 V, 50Hz ± 0.5 Hz