



High Performance Liquid Chromatography

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High Performance Liquid Chromatography

DSIHPLC-010/DSGHPLC-020

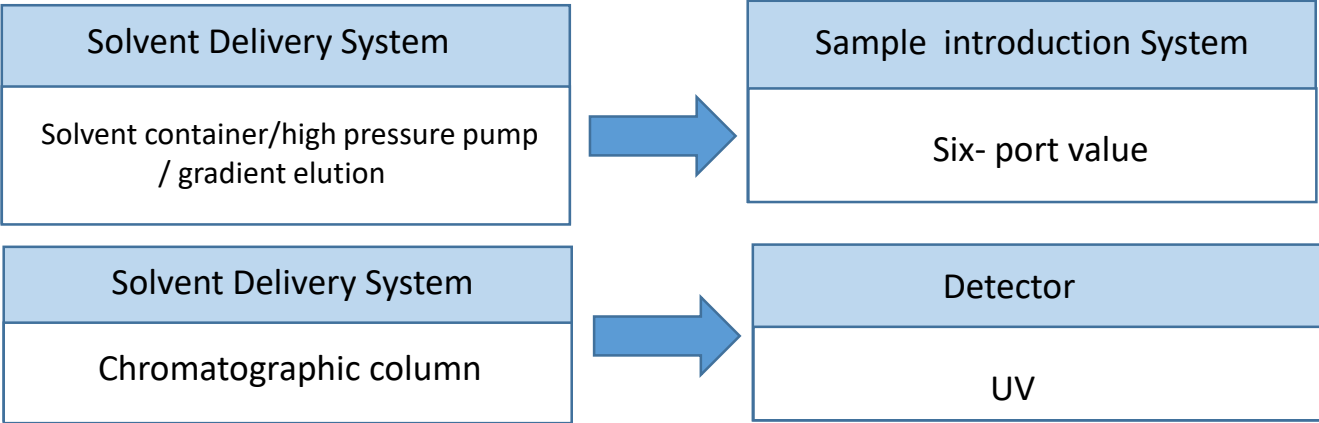


Product Overview

The Darsun Scientific DSIHPLC system is available in DSDIHPLC1IS (Isocratic) and DSI HPLC2GS (Gradient) configurations, offering high precision, low flow pulsation, and advanced dual-plunger solvent delivery. It features a 190–400nm UV detector with selectable single or dual-wavelength modes, robust OLED display controls, and full compliance with GLP/FDA-21 CFR Part 11 requirements

Product Features

1. Pumping system DSIHPLC010: Isocratic system
2. Pumping system DSIHPLC-020: gradient system
3. Superior high-pressure pump achieves accurate solvent delivery with high-precision and low fluctuation
4. Advanced and innovative design modules provide high reliability and accuracy for longer operation DSIHPLC010 pump works in-parallel and ensures accuracy and durability
5. UV detector provides stronger detection capability
6. Low Flow Pulsation: Electronic Pressure Control technology is used to effectively control flow pulsation and ensure minimum baseline noise.
7. High flow accuracy and repeatability: Multi-point flow calibration curve ensures flow accuracy over the full flow range.
8. Long seal life: The floating plunger design ensures the service life of the high pressure seal.
9. DSIHPLC-020 Dual optical path optical system: enables dual wavelength detection
10. High-precision stepper control: Monochromatic adopts imported high-precision control to improve wavelength accuracy
11. Wavelength automatic correction: New wavelength calibration method
12. Multi-mode wavelength scanning: 3 scanning modes, wavelength programmable.
13. Friendly interface: OLED display, popular table format interface design, 10 user programs, can realize flow and gradient programming.
14. Software: compatible with GLP/FDA-21 CFR Part11 requirements and regulations. (electronic records and signatures)



Technical Data

MODEL	DSIHPLC-010	DSGHPLC-020
System	Isocratic System	Gradient System
Pump	1	2
Make	Darsun Scientific	
PUMP	Details as below	
Delivery system	Dual-plunger in series, Float plunger design Single stroke discharged fluid volume is 30μl.	
Flow range	0.001 ~ 9.999ml/min.	
Increment	0.001ml/min.	
Flow accuracy	±0.5% or 10μl/min	
Flow precision	RSD ≤ 0.1%	
Pressure fluctuation	≤ 0.5%	
Pressure range	≤ 42 MPA for 316L pump head, ≤ 30 Mpa for PEEK pump head	
Pipeline connection	1/16 standard Pipeline connection	
Display parameter	OLED graphic display	
Control	Instrument panel control or computer anti-control	
Power	75W	
Power supply	AC 220V, 50/60Hz	
Pump Packing Dimensions (LxWxH)	575*450*385	
UV DETECTOR	Details as below	
Detection system	190-400nm(700nm optional), Single or dual wavelength mode selectable	
Wavelength range	Wavelength range:190-400nm(700nm optional)	
Increment & Lamp	1nm & Deuterium or halogen lamp(Optional) selectable	
Wavelength accuracy	1nm	
Wavelength precision	±0.1nm	
Drift	2*10 ⁻	
Volume of flow cell	10μl	
Detect range	0-2Au	
Pipeline connection	1/16 standard pipeline connection	
Display parameters	OLED graphic display	
Control	Instrument panel control or computer control	
Power	80W	
Power supply	AC 220V, 50/60Hz	
Detector Packing Dimensions (LxWxH)	575*450*515	
Gross Weight (approx.)	34kg (19kg Detector +15kg Pump)	