

LISURE

LIPERLA/LIPERCS

High Pressure Chromatography System

DAC

Dynamic Axial Compression
Chromatography Column

LISURE high pressure chromatography systems and columns are specially designed purification products for GLP-1, peptides, ADC, insulin and oligonucleotides.



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LIPERLA/LIPERCS HPLC



High Gradient Accuracy



Stable & Efficient



Safe And Reliable



Modular Design



GMP Compliance



Multiple Software Platform

System Design

LIPERCS series high-performance chromatography system is configured with flexible options, 5 products with flow rates of 6L~2500L/h, which can be used for DAC100~DAC1200 high-pressure chromatography columns. It uses low pulse, high precision multi-head diaphragm eluting pump & loading pump, and temperature control module is optional.



- Product models cover various stages including RD-Pilot-Production scale-up;
- Modular design reduces floor space and increases maintenance reliability;
- The system adopts systematic design, stable-safe operation and simple maintenance;
- The software design is simple and easy to learn. Fully meets GMP production requirements;
- The overall design complies with CE&ASME requirements and meets the explosion-proof requirements of China / EU;

- The system flow rate is precision with excellent gradient performance;
- The software identifies peaks accurately and quickly, and cooperates with DAC to efficiently separate products;
- HPLC series products can be used with 100-1200mm DAC;
- Max to 100bar operating pressure;

- The software architecture complies with ISA 88 and FDA 21 P11;
- Optional DCS&Batch platform;
- Optional inline conditioning module;
- Provide complete verification services (FAT/SAT/IQ/OQ);

Specification

Product	Model	Technical Specification	Adapted Column
LIPERCS Series	LIPERCS DN08	6-180L/h, 100bar, gradient system (PCV), elution pump + loading pump, UV wavelength range 190-800nm, ATEX II-Class Division 2	DAC100/150/200
	LIPERCS DN10	90-200L/h, 100bar, gradient system (PCV), elution pump + loading pump, UV wavelength range 190-800nm, ATEX II-Class Division 2	DAC150/200/300
	LIPERCS DN15	150-500L/h, 100bar, gradient system (PCV), elution pump + loading pump, UV wavelength range 190-800nm, ATEX II-Class Division 2	DAC200/300/450
	LIPERCS DN20	300-1000L/h, 100bar, gradient system (PCV), elution pump + loading pump, UV wavelength range 190-800nm, ATEX II-Class Division 2	DAC300/450/600
	LIPERCS DN25	500-2500L/h, 70bar, gradient system (PCV), elution pump + loading pump, UV wavelength range 190-800nm, ATEX II-Class Division 2	DAC800/1000/1200
LIPERLA Series	LIPERLA 100	100ml/min gradient system, 0.01-100ml/min, accuracy $\pm 1\%$, RSD<0.5%, 100bar, elution pump + loading pump, wavelength range 190-800nm, 0-3AU	DAC50
	LIPERLA 300	300ml/min gradient system, 0.01-300ml/min, accuracy $\pm 1\%$, RSD<0.5%, 100bar, elution pump + loading pump, wavelength range 190-800nm, 0-3AU	DAC50/80/100
	LIPERLA 600	600ml/min gradient system, 0.01-600ml/min, accuracy $\pm 1\%$, RSD<0.5%, 100bar, elution pump + loading pump, wavelength range 190-800nm, 0-3AU	DAC80/100/150
	LIPERLA 1000	1000ml/min gradient system, 0.1-1000ml/min, accuracy $\pm 1.5\%$, RSD $\leq 1\%$, 100bar, elution pump + loading pump, wavelength range 190-800nm, 0-3AU	DAC150/200
	LIPERLA 3000	3000ml/min gradient system, 1-3000ml/min, accuracy $\pm 1.5\%$, RSD $\leq 1\%$, 100bar, elution pump + loading pump, wavelength range 190-800nm, 0-3AU	DAC150/200



LIPERCS DN15



LIPERCS DN10



LIPERCS DN08



LIPERLA



LIPERCS DN20



LIPERCS DN25



LIPERCS DN40

DAC Column



High Column Efficiency



Good Repeatability



High-precision Polishing



Easy Operation



Customized Design



DAC50 DAC80 DAC100 DAC150 DAC200 DAC300 DAC450

- High column efficiency, good reproducibility, large sampling amount, saving time & labor;
- The inner wall 0.2μm polishing technology to reduce the wall effect;
- The system has good sealing function. Safe and reliable;

- There are various adaptive resins, including various reverse-phase polymer resins, silica gel C8/C18 and so on;
- Flexible and convenient column packing;
- Pipe layout is regular, modular structure design;
- Support customized design for products with special requirements;



DAC600 DAC800 DAC1000 DAC1200

Product No.	Column ID (mm)	Column tube length (mm)	Bed height (mm)	Max working Pressure (MPa)	Tube inner wall Ra	Sieve pore size	Working temperature	Dimension (L*W*H mm)
DAC50	50	700	≤400	10	≤0.2μm	2μm	5-60°C	670*670*1733
DAC80	80	700	≤400	10	≤0.2μm	2μm	5-60°C	670*670*1900
DAC100	100	700	≤400	10	≤0.2μm	2μm	5-60°C	500*600*2420
DAC150	150	700	≤400	10	≤0.2μm	2μm	5-60°C	600*766*2470
DAC200	200	700	≤400	10	≤0.2μm	2μm	5-60°C	700*866*2580
DAC300	300	700	≤400	10	≤0.2μm	2μm	5-60°C	960*890*2920
DAC450	450	700	≤400	10	≤0.2μm	2μm	5-60°C	970*1024*3180
DAC600	600	700	≤400	10	≤0.2μm	2μm	5-60°C	1400*1400*3808
DAC800	800	700	≤400	10	≤0.2μm	2μm	5-60°C	1650*1520*3768
DAC1000	1000	700	≤400	10	≤0.2μm	2μm	5-60°C	2000*2200*4200
DAC1200	1200	700	≤400	10	≤0.2μm	2μm	5-60°C	1855*1855*4611

Temperature control jacket is optional for all models above.