



LU CLASS

Accurate Flow Rates for Pressures up to 18,000 psi

The analytical **LU Class** consists of dual-headed, positive displacement piston pumps, delivering accurate flow rates at extremely high pressures. Available fluid path materials are Stainless Steel and Titanium for standard and Bio-compatible UHP chromatography applications.

The **LU Class** is designed for fast, high pressure analytical HPLC, with increased peak resolution and exceptional retention time repeatability. The SSI advanced solvent select feature provides very accurate flow rates at high pressures for a wide variety of solvents, particularly where compressibility is a major factor. Pressure capability is 18,000 psi, with a maximum flow of 5 mL/min.

Standard features include automatic pressure compensation, complete PC control and status through RS-232 and Micro USB 2.0 ports, solvent select and user calibration. With pulse-free performance and precise control, the **LU Class** provides the highest flow accuracy over the entire pressure range.

Components are also available in Kit Form for OEM Applications.



Flow Rate
5 mL/MIN

Pressure
18,000 PSI

Fluid Path
STAINLESS STEEL
OR TITANIUM

Control
RS-232, MICRO USB,
RUN/STOP,
ANALOG (0-10V, 4-20mA)

LU CLASS - MODEL SELECTION MATRIX

Ultra-High Pressure Dual Head Piston Pump for High Throughput HPLC and Column Packing

USE THE FOLLOWING LISTS OF OPTIONS AND OPTION CODES TO CONSTRUCT YOUR PUMP MODEL NUMBER.

PUMP CLASS	FLOW RATE	MATERIAL	SELF-FLUSH	PULSE DAMPENER	PISTON SEAL	INLET/OUTLET TUBING	SPECIAL OPTIONS
LU = LU Class	005 = 5 mL/min (18,000 psi max.)	S = Stainless Steel Fluid Path T = Titanium Fluid Path	F = w/ Self-Flush Piston Wash N = No Self-Flush	T = UHP Pulse Dampener w/ Pressure & Leak Sensors X = No Pulse Dampener w/ Pressure & Leak Sensors	I = Standard Seal (SS Energizer) (SS: Stainless Steel)	Inlet A = 1/8" OD (flexible) Outlet 1/16" OD	- = Standard Product (leave blank for standard options & cabinet) XX = Customer Special (Consult Factory)
						Note: Inlet and Outlet Fittings are included with the pump for the specified tubing. For option A, flexible inlet tubing and filter are included.	

EXAMPLE MODEL NUMBER: **LU005FX1A**

Please Note: Some features and options are not available with certain configurations. Please refer to the Part Number Configurator (Excel) to verify model number before ordering. Download at: www.ssihplc.com/configurator/

LU CLASS - SPECIFICATIONS

Flow Rate Range and Max. Pressure Rating*	0.000 - 5.000 mL/min (18,000 psi)	Wetted Materials	(See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE
Pulsation**	≤0.75% from 3,000 psi to 18,000 psi	Dimensions	6.3" H x 10" W x 17" D (16 x 25.4 x 43.2 cm)
Pressure Accuracy	±2% of full scale pressure	Weight	27 lbs. (12.3 kg)
Flow Accuracy	Within 1% of set flow rate, 0.100 mL/min and above; 80:20 Water/IPA @ 5,000 psi	Power	100-240 Vac (± 10%), 50-60 Hz
Flow Precision	0.5% RSD on > 30 sec. average flows	Control	RS-232, Micro USB, Run/Stop, Analog (0-10V, 4-20mA)

* Flow Rate is dependent on solvent selection and operating pressure. ** Pulsation value with pulse dampener.