

LC-6AD

Shimadzu Preparative Liquid Pump



The Shimadzu LC-6AD is a high-performance liquid pump with a computer-controlled double plunger system, and provides a wide flow rate range from 0.001 mL/min. to 20 mL/min. You can build an HPLC system that exactly meets your requirements, by attaching the necessary component units to the LC-6AD.

Wide flow rate-range and high-delivery pressure

The LC-6AD provides a flow-rate range from 0.001 mL/min. to 20 mL/min., and a maximum delivery pressure of 500 kgf/cm². It is effectively used for HPLC when using either microcolumns or semipreparative columns.

Exceptional ease of operation

The flow rate or pressure is set via the numerical keys. The set flow rate, pressure, and the upper and lower pressure limits can be monitored at any time.

High reliability

The rear of the plunger seal can be rinsed at any time; this feature ensures a longer seal life of the seal even when a high-concentration salt buffer solution is used as the mobile phase. The unique plunger holding mechanism also ensures a longer life seal, and high reliability.

Highly stable, fluctuation-free mobile phase delivery

The compressibility of mobile phase is automatically controlled in the pump head according to the change in the back pressure by means of a high-resolution pressure sensor and a stepping motor. This feature minimizes the fluctuation of the mobile phase delivery.

A variety of time programs

The flow rate, mobile phase pressure, the ON/OFF of the solenoid valves, and the rinsing pump may be time-programmed through simple operation. This feature is quite convenient for column conditioning and automatic rinsing of the flow line.

Convenient self-diagnostic function

The mobile phase delivery pressure and its fluctuations in the two heads are continuously monitored and displayed. It is quite easy to check the status of the pump operation.

Preparative Liquid Pump

Specifications: LC-6AD (Cat. No. 228-45068-xx)

Type	Reciprocating double-plunger type
Flow range	0.001-20mL/min
Range of constant flow rate control	0.01-5mL/min. (10-500 kgf/cm ²)
	0.01-20mL/min. (10-250 kgf/cm ²)
	0.001-9.999mL/min. with switch selection
Accuracy of flow-rate setting	±1% or ±10μL/min. (0.01-5mL/min., 10-400kgf/cm ²)
Flow-rate stability	±0.3% (0.1-5mL/min.)
Range of constant pressure control	10-500 kgf/cm ²
Time-programmable items	Flow rate, pressure, ON/OFF of event outputs
Safety pressure limit	Upper and lower limit
Material of wet parts	Stainless steel (SUS 316), Hastelloy C®, ruby, sapphire, peek, Reinforced teflon
Suction filter	5μm
Line filter	2μm
Ambient temperature range	10-40°C
Dimensions	260(W) x 500(D) x 160(H)mm (without projections)
Weight	20kg
Power requirements	-92 120 V, 200VA, 50/60Hz
	-94 220 V, 200VA, 50/60Hz

Options

PC-31L Optical Link interface for LC-6AD for connection to SCL-10AvP/SCL-10A	228-31103-91
6AD mixing chamber	228-20738-92

① Fluorescent tube display

The 16-digit display clearly shows the time programs for the flow rate, pressure, upper and lower limiters and the event outputs.

② Pump ON/OFF key

③ PROGRAM RUN key

Starts the programs for the flow rate, pressure, and/or event outputs.

④ Numerical keys

⑤ PROGRAM RUN key

Set time programs for the flow rate, pressure, etc.

⑥ Pump heads

The unique design ensures high stability of solvent delivery. Also, the unique plunger holding mechanism ensures a long life for the plunger seal.

⑦ Automatic rinsing of the plunger

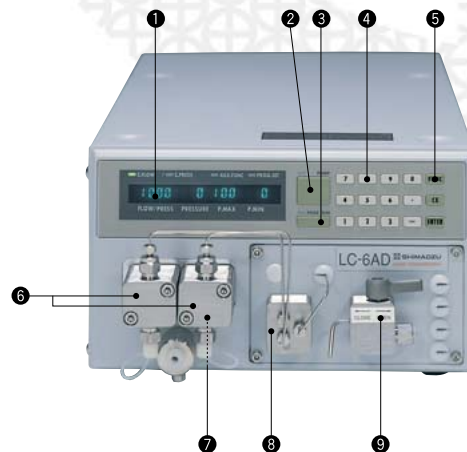
The deterioration of the plunger seal by a high-concentration buffer solution is minimized.

⑧ Pressure sensor

The delivery pressure fluctuation is corrected by a CPU according to the output signal of the high-resolution pressure sensor.

⑨ Drain valve

Solvents may be exchanged by a single turn of the lever. A line filter is also incorporated.



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