

AIS HPLC Pumps



AIS HPLC Pump Features:

- Self-priming pump head requires no manual priming**
- Patented "Floating Pump Seal" design for extended seal wear**
- Available with analytical, semi-prep, and prep pump heads**
- Intuitive software control for isocratic and gradient systems**
- Programmable solvent compressibility compensation**
- Easy maintenance and service for all wetted parts**
- Integral prime/purge assembly for quick solvent change**

<http://www.ais-india.com>

A/S HPLC Pumps

Introduction

The A/S HPLC pump is designed with the chromatographer in mind. It can be used as a reliable low cost isocratic pump or integrated into a gradient HPLC System. In either case, the pump incorporates several key features which make it truly one of a kind in the world of HPLC Pumps.

Features

Self-priming

The pump will prime itself with any solvent and at any flow rate. Turn on the pump and open the purge valve, the pump will prime itself even from a completely dry start. You will never need to use syringes to prime it.

Patented Floating Pump Seal

The seal actually floats so that it is always perfectly aligned with the piston. Our tests have proved that the average life with this new patented design is more than 5,000 hours of continuous operation at 6,000 PSI and 10 mL/min. with pure water.

Analytical, Semi-Prep, and Prep Pump Heads

The Model 2001 is available in three different flow rate configurations.

Analytical Head:	0.001 mL/min. to 10 mL/min.	6,000 PSI Max
Semi-Prep Head:	0.050 mL/min. to 20 mL/min.	2,500 PSI Max
Prep Head:	0.100 mL/min. to 80 mL/min.	1,000 PSI Max

Intuitive Software Control

The control is designed with dedicated keys that allow even a novice to turn on the pump and create methods. An easy to read 4-line x 20-character LCD display allows the user to monitor several pump parameters from the same screen. The model 2001 can be controlled from its own keypad or from a Model 2000G gradient controller. When configured as a gradient HPLC system users can program and store up to 60 methods with 20 lines each. Methods may be linked or run independently.

Solvent Compressibility Compensation

The user may select from several different solvents from the on board library. The control automatically compensates for compressibility of the selected solvent.

Easy Maintenance

All user serviceable components are easily accessed from the front panel. Once the head assembly is removed, the pistons and seals can be replaced quickly and easily without the use of tools.

Pressure Sensor Bonded strain gage with flow through design and digital output

Prime/Purge Assembly Allows for quick and easy solvent change

To order call 091-9825676549

091-265-2253620

Isocratic Model 2001

The Model 2001 is a high performance, compact solvent delivery module that has been designed to compete with the most expensive pump systems on the market in reliability and performance without the high cost. A dual piston design with solvent compressibility feedback assures virtually pulse-free and accurate solvent delivery. The Model 2001 has all of the features of Model 2000G, but without gradient programming capability. It may be used as an economical stand alone pump for isocratic operation, or in conjunction with a Model 2000 for gradient operation.

Specifications

Accuracy:	+/- 1 % or +/- 2 microliter/min. whichever is greater
Precision:	0.25 % from 0.1 mL/min. to 10 mL/min. at 20 degrees C
Dimensions:	10-1/4" W x 14" D x 6-1/2" H
Weight:	13 lbs. (5.9 kg)
Power input:	85 to 264 VAC, 47 to 63 Hz, 60 watts

Model 2000

The Model 2000 has been designed to convert the Model 2001 from an isocratic pump to a gradient HPLC system. Full operation and gradient control programming is achieved through the keypad on the front panel of the Model 2000. The Model 2000 includes a high pressure integral static mixer, connecting tubing, and all the accessories necessary to quickly convert the Model 2001 to gradient operation.

Specifications

Accuracy:	+/- 1 % or +/- 2 microliter/min. whichever is greater
Precision:	0.25 % from 0.1 mL/min. to 10 mL/min. at 20 degrees C
Programming:	60 methods with 20 lines each, methods can be linked to create complex gradient programs.
Remote Start/Stop:	Controlled by external contact closure
Dimensions:	10-1/4" W x 14" D x 6-1/2" H
Weight:	14 lbs. (6.3 kg)
Power input:	85 to 264 VAC, 47 to 63 Hz, 60 watts

Model 2000G

As ordered the Model 2000G is a complete high pressure gradient HPLC system. The system includes one Model 2001 and one Model 2000. Specifications listed above.



Analytical Instrument Solutions

E67 and E68 RAVI PARK, OPP. SAINATH PARK
VASNA ROAD, BARODA ,GUJARAT, INDIA-390015

<http://www.ais-india.com>

Phone:91 - 265 - 2253620 , Fax : 91-265-2254395



To order call 091-9825676549

091-265-2253620



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