

Fast Protein Liquid Chromatography System

- **Binary Gradient pump** with two pumps
- **Flow rate** of 0.001 ml/min to 25 ml/min
- **Pressure range** of operation : 0-20 MPa
- Accurate, automatic gradient formation from 0 to 100% gradient over the entire flow range of 0.1 to 25 ml/min
- **UV Detection** : Detecting atleast 3 wavelengths simulataneously with a range from 190-900nm , wihtout change of lamp(Xenon flash lamp) with path length of 2mm.
- **Conductivity** : Range from 0.01 mS/cm to 999.99 mS/cm with a cell volume of 22 μ L.
- **pH** : 0-14 pH range, with By passing option and separate syringe electrode for easy calibration
- **Fraction Collector** : Simulataneously can operate two fraction collectors, with sample volume 0.1mL-50mL in 12-18 mm *175 tubes.
- **Sample valve** : Capability of injecting sample loops of sizes 25,50,100, 200 and 500 μ L , 1 and 2 ml
- System should have options/additional valves to bypass the column or reverse the flow in column through software so that washing or removal of air-bubbles become easier and time-saving.
- Capable of **Interfacing with External Detectors** like RI, Fluorescent, Diode, DLS from any third party and should be controlled from the same Chromatography system software.
- **Software** supplied should perform instrument control, data acquisition and data evaluation/analysis with following capabilities:
Software should comply the electronic signature according to 21 Code of Federal Regulations Part 11.
Licensed Software with lifetime up-gradation facility.
Real time control of all units
Method programming, column library, column scouting , Design of Experiments
Data analysis : peak integration
Watch function, regulatory support
Customized report preparation
Computer system for operating all the above connected with UPS
- **Cold cabinet:**
Specially designed – imported Cold cabinet to house the entire system
Shelves: Telescopic, placed according to user needs .
Interior and front panel made of stainless steel. White housing, powder coated
Potential-free outlet for connection to an house alarm-system.
Defroster : Fully automatic
Humidity control : The humidity control is based on the evaporator fan functioning according to the compressor working status.
Air circulation : Double blower
Display : Digital display in 0.5 C
Temperature range : +1°C bis +18°C
Temperature sensor : Preferably Pt resistance thermometer sensors

Temperature monitor : Over temperature protection . Under temperature safety device with own sensor

Rails: Retractable

Loading capacity: Maximum 100 Kg

Available volumes - atleast 1500 L

Integral door heater and Additional Perspex doors behind the glass doors for anti condensation.

Terms and Conditions:

Installation and training should be provided at the customer site. Installation requirement should be intimated in advance.

The company should also have an engineer based in nearby region (Chandigarh/Delhi/NCR) for immediate visit in case of emergency.

A list of users with full contact details (in India) of the proposed system should be provided.

A minimum of one year standard warranty is required.

Historical data should be provided from current users, inside and outside IISER Mohali.

Document on the market share of the company in India should be provided. Proof of authorization from the parent company to sell and service the equipment in India must be supplied by the vendor.