

**Pump**

- Hydraulic system: Dual pistons in series pump
- Multiple pump control for up to 4 gradient pumps in a single system
- Flow rate: 0.15 to 15 min/, in 0.001 mL/min increments
- Flow precision:  $\leq 0.07\%$  RSD or 0.01 min SD, whatever is greater (0.2 — 5.0 mL/min).
- Flow accuracy  $\pm 1\%$  or  $\pm 10\ \mu\text{L}/\text{min}$ , whatever is greater
- Line frequency: 50 or 60 Hz,  $\pm 5\%$
- Maximum operating pressure: 800 bar for 20 mm diameter column
- High pressure dynamic mixer for optimized gradient performance
- Online integrated vacuum degassing unit with 4 channel
- Operating pH-range: 1.0 – 12.5, solvents
- Solvent selection valve: Internal 4-solvent selection valve included
- Materials in contact with solvent: TFE/PDD copolymer, FEP, PEEK, PPS, stainless steel, polyimide
- Automatic Purge Valve : Included, allows automatic inline-filter back-flush and automatic mixer change
- Active Seal wash: Included
- GLP features : Early maintenance feedback

**Injection sampler:**

- Manually sample-injection with Loop size 0.5-1.5  $\mu\text{L}$  with optional kit
- Flow through needle design sampler
- Different loop sizes for optimized injection range
- Pressure range in sampler injection: up to 130 MPa (1300 bar)
- Precision:  $< 0.15\%$  RSD or SD  $< 10\ \text{nL}$

**Variable Wavelength Detector:**

- Detection type: Double-beam photometer
- Light source: Deuterium lamp
- Number of signals: Single and dual wavelength detection
- Maximum data rate : 240 Hz (single wavelength detection) 2.5 Hz (dual wavelength detection)
- Noise :  $< \pm 0.15 \cdot 10^{-5}\ \text{AU}$ , at 230 nm (single wavelength detection),  $< \pm 0.80 \cdot 10^{-5}\ \text{AU}$ , at 230 nm and 254 nm (dual wavelength detection)
- Linearity :  $> 2.5\ \text{AU}$  upper limit
- Wavelength range: 190 – 600 nm
- Flow cells: Preparative: 0.3 mm cell path length and 50 bar (725 psi) pressure maximum
- Wavelength accuracy  $\pm 1\ \text{nm}$ , self-calibration with deuterium lines,
- Analog output: Recorder/Integrator 100 mV or 1 V, 1 output

**Others Provision:**

- Fully integrated with complete system monitoring
- All replaceable components are accessible through the front panel
- Vertical leak/drain system to channel away solvent
- Each system component is completely stackable into a modest height
- Provision of electrical input/output contacts with any other associated equipment
- Line voltage: 100 – 240 V~,  $\pm 10\%$
- Automatically control of pumps and entire preparative HPLC system via software
- Provision of hardware interface between PC and the system components and up to four channels of analog data can be acquired
- Powerful data analysis, reliable peak integration and identification, powerful and easy quantification, a quick user-defined reporting format and versatile data conversion for data export.
- Peak calculation results can be sent to Microsoft® Excel automatically
- Computer with window 10 and LCD

01 QTY

**Spares**

- Pump for HPLC unit-----2 QTY
- UV Lamp for HPLC unit-----1 QTY
- XTerra MS C18 Column Reversed-Phase 3.5  $\mu\text{m}$ , 4.6 mm x 100 mm-----02 QTY
- XTerra Reversed-phase C18, 10  $\mu\text{m}$  (10 mm x 250 mm) column -----02 QTY