

### Detector

Microprocessor-controlled absorbance detector providing dual wavelength detection

- Dual, variable wavelengths
- Range: 190–700 nm
- Spectral bandwidth: 9 nm
- Setting accuracy: ±2 nm
- Setting precision: ±0.2 nm

# Flow Cell

- Preparative 0.2 mm pathlength, 0.7 μL
- Preparative 0.05 mm pathlength, 0.16 μL
- High pressure preparative 0.5 mm pathlength, 2.0 mL

# **Pumping System**

- \* 25SC Pump Head
  - Flow: 1-25 mL/min
  - Pressure: 4060 psi (280 bar)
- \* 50SC Pump Head
  - Flow: 1-50 mL/min
  - Pressure: 2030 psi (140 bar)
- \* 100SC Pump Head
  - Flow: 1-100 mL/min
  - Pressure: 1015 psi (70 bar)

### Flow Rate Accuracy:

± 1% of requested composition

**Minimum Flow Rate Adjustment:** 0.01% of Pump Head Size

Mixing Volume: 2.87 mL **Composition Accuracy**:  $\pm 2\%$ **Gradient Linearity**: 1–99% using Pump B

# **Solvent Selection**

- Up to 4 solvents selectable on Pump B
  - 20 µm inlet solvent filter

## Injection

Manual 0.030" bore valve with electronic actuator

# Loop Sizes

100 µL–5 mL (or greater)

# **Injection Syringe**

10 or 1 mL with disposable syringe (20 gauge needles)

## **Fraction Collection Valve**

Valve Dead Volume: 144 µL internal volume; 6 µL dead volume from common port to normally closed port

Flow Rate: 200 mL/min

Valve Switching Speed: < 20 ms

Liquid Contact Material: PTFE and 316 Stainless Steel

# Fraction Capacity (3 Racks)

- 13 x 100 mm (180) test tubes
- 15 x 45 mm (144) test tubes
- 16 x 100 mm (144) test tubes
- 16 x 150 mm (144) test tubes
- 18 x 150 mm (132) test tubes
- 20 and 40 mL (42) Scintillation vials
- Custom racks available

 $^{st}$  1 mL/min flow rates are for Analytical Scout Runs and will show delays in gradient response time.



# System Controller

- Chemical resistant 10" WSVGA TFT Touch Panel PC
- 5-wire resistive touchscreen
- 1.6 GHz Intel Atom processor
- 2 GB of RAM
- 160 GB internal hard drive

### Connections

- Contacts: 2 input and 2 output
- 24 V Output
- USB ports for keyboard, mouse and/or printer connection Ethernet

# Dimensions (w x d x h)

42.5 x 57.5 x 75 cm 17" x 23" x 30" in

### **Environmental Conditions**

Altitude: up to 2000m

**Temperature Range**: 5°–40°C,

Humidity: Maximum relative humidity 80%





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# Purification Solutions from the Purification Leader

for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C



# **PLC 2020 Personal Purification System**





A robust system true to its name to last through the years.

# PLC 2020 Purification System It's Your Chemistry ... Make it Personal!

A fully-functioning purification system in a small, compact footprint, the PLC 2020 Personal Purification System was developed in response to the growing need for an easy-to-use, self-contained system to handle a chemist's purification needs on a more personal level. The PLC 2020 Personal Purification System is ideally suited for low-throughput, high pressure purification needs and is intended to support an individual or a small group of chemists.

