

**Product Name :**  
Liquid Chromatography Digital System

**Product Code :**  
TWL-CEE-0006



**Description :**

Liquid Chromatography Digital System

**Technical Specification :**

**HPLC:-**

Ultra speed data processing by Network HPLC.

Designed for all you need in the lab.

Enhanced superior performance.

Versatile dedicated applications.

Accurate and reliable data.

Stylish and compact design.

## **Quaternary Pump:-**

Operating principle: Parallel dual-plunger pump, Low-pressure gradient.

Number of Solvents: up to 4 solvents.

Gradient formation: 4-channel mixing valve.

Composition Precision: < 0.1%.

Composition Accuracy: < 0.5%.

## **Binary Pump:-**

Operating principle: Double parallel dual-plunger pump,

High-pressure gradient.

Configure with Gradient pump.

## **Vacuum Degasser:-**

Number of channel: 4 channels.

Maximum flow rate: 10ml/min per channel 0~2.0ml/min per channel for 70% Gas Removed from Methanol.

Internal volume per channel: 925 ul per channel.

Materials in contact with the solvent.

Teflon AF, PEEK, and Glass-filled PTEE.

## **Column Compartment:-**

Temperature range: 4°C (Cooling) - 90°C

Temperature stability:  $\pm 0.05^{\circ}\text{C}$

Temperature accuracy:  $\pm 0.5^{\circ}\text{C}$

Column capacity: Max. 3 ea of 30 cm column (Analytical)

Max. 2 ea of 30 cm column (Semi-Prep)

**UV/Vis Detector:-**

Wavelength Range: 190~900nm (Dual wavelength)

Data collection rate: up to 50Hz

Noise level:  $< \pm 0.5 \times 10^{-5}$  AU, 254nm, dry cell

Drift:  $< 1 \times 10^{-4}$  AU/hr

Linearity:  $> 99.5\%$  for 2.5AU (acetone, 254nm)

**PDA Detector:-**

No. of PDA Channel: 1024

Wavelength: 190 ~ 950nm

Noise Level:  $2 \times 10^{-5}$  AU (Empty Cell, 1 sec Rise Time, 254nm)

Drift:  $2 \times 10^{-4}$  AU/hr (Baseline Correction), 0.001AU/hr (Room Temp)

Wavelength Accuracy: 1nm (HY-1 Holmium Oxide Filter)

## **RI Detector:-**

RI Range: 1.00~1.75 RIU

Noise:  $5 \times 10^{-9}$  RIU (Analytical) /  $10 \times 10^{-8}$  RIU (Semi-prep)

Flow Cell Volume: 9 ul (Analytical) / 7 ul (Semi-prep)

## **Electrical and Electronics**

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