

# LC-10Tvp Gradient Liquid Chromatograph System



## **Overview:**

LC-10Tvp Liquid Pump was developed on the basis of STI501 Liquid Chromatography, adopted advanced technology and design of the United States.

LC-10 Tvp Liquid Pump can be connected to any sort of Liquid detector, so widely applied in the field of HPLC, laboratory chemical reaction infusion and chromatography and etc.

## **Features:**

- Improve the maximum limited pressure by precise transducer
- Accord with GMP/GLP, ISO9001, 21 CFR Part II with CDS (Software)
- Online Washing Device while analysis
- Self-priming pump head requires no manual priming
- Available with micro, analytical, semi-prep, and prep pump heads
- Programmable solvent compressibility compensation
- Easy maintenance and service for all wetted parts



## **LC-10Tvp Liquid Pump Specifications:**



|                           |                                                 |
|---------------------------|-------------------------------------------------|
| <b>Flow Range</b>         | 0.001 – 9.999 ml/min                            |
| <b>Delivery method</b>    | Double piston ( Main & Auxiliary)               |
| <b>Pump head</b>          | 10ml SST/Peek analytical                        |
| <b>Accuracy</b>           | ± 1% or ± 2µL/min, whichever is greater         |
|                           | ± 1% or ± 1µL/min, whichever is greater (Micro) |
| <b>Flow rate settings</b> | 0 - 0.10 mL/min. 0.001 inc.                     |
|                           | 0.10 – 0.90 mL/min. 0.010 inc.                  |
|                           | 1.0 mL/min.+ 0.10 inc.                          |
| <b>Precision</b>          | 0.1% RSD                                        |
| <b>Pmax</b>               | 9999 psi                                        |
| <b>System connections</b> | 1/16" capillaries                               |
| <b>Dimensions</b>         | 130 mm x 260 mm x 420 mm                        |
| <b>Weight.</b>            | 11 kg                                           |
| <b>Power input</b>        | 85 to 264 VAC, 47 to 63 Hz, 60 Watts            |
| <b>Display</b>            | 300mm                                           |

## **SPD-10Tvp UV-VIS**

### **Spectrophotometric Detector**

#### **Overview:**

SPD-10Tvp UV-VIS can be connected to any sort of liquid pump, accuracy wavelength, high sensitivity, widely linear range. This is a cost-effective and reliable, practical, economic testing unit.

Accord with GMP/GLP, ISO9001, 21 CFR

Part II with Chromatography Data System (Software).



## **Features:**

- Unique pool structure ensures the accuracy and sensitivity of the instrument
- Easy maintenance and service for all wetted parts
- High-quality structure
- Long life deuterium lamp
- Easily replace
- Advanced design

## **Specifications:**

|                            |                                                                         |
|----------------------------|-------------------------------------------------------------------------|
| Wavelength                 | 190-700 nm                                                              |
| Spectral bandwidth         | 6 nm                                                                    |
| Wavelength Accuracy        | $\leq \pm 1$ nm                                                         |
| Wavelength Reproducibility | $\leq \pm 0.1$ nm                                                       |
| Flow pool volume           | 8 $\mu$ L                                                               |
| Optical path               | 10 mm                                                                   |
| Dynamic Noise              | $\leq \pm 0.75 \times 10^{-5}$ AU (Methanol, 1ml/min, 254nm, 20°C)      |
| Static Noise               | $\leq \pm 0.5 \times 10^{-5}$ AU (Empty pool, Response time 1 s, 20 °C) |
| Dynamic Drifting           | $\leq \pm 1 \times 10^{-4}$ AU (Methanol, 1ml/min, 254nm, 20°C)         |
| Static Drifting            | $\leq \pm 0.5 \times 10^{-4}$ AU (Empty pool, Response time 1 s, 20 °C) |
| Qualitative repeatability  | RSD $\leq 0.1\%$                                                        |
| Quantitative repeatability | RSD $\leq 0.5\%$                                                        |
| Dimensions                 | 130H x 260W x 420 D, (mm)                                               |
| Weight.                    | 11 kg                                                                   |

|                                              |       |                                         |       |
|----------------------------------------------|-------|-----------------------------------------|-------|
| LC-10Tvp Liquid Constant Flow Pump           | 2 set | C18 4.6×250mm,5um Chromatography Column | 1 set |
| SPD-10Tvp UV-VIS Spectrophotometric Detector | 1 set | Chromatography Data System (Software)   | 1 set |
| 7725i Manual Injector                        | 1 set | Injector 50ul/100ul                     | 1 set |
| Solvent Tray                                 | 1 set | Backpressure Valve                      | 1 set |
| Mixer                                        | 1 set | Injector Holder                         | 1 set |