



## Syringe Pump



SPLab02-Dual channel

### Features

The syringe pump with infusion/withdrawal mode, stainless steel body, and large-screen chromatic LCD is easy to operate. It can install and fix different types of injectors or syringes in the same time, and it is suitable for transferring micro flow rates with high precision (non-medical).

### Model Number

- | SPLab01(1 channel) | SPLab02(2 channels)
- | SPLab04(4 channels) | SPLab06(6 channels)
- | SPLab08(8 channels) | SPLab10(10 channels)
- | SPLab12(12 channels)

### SPLab01-E



### Typical Application

Special for high voltage electrostatic spinning

### 32.4 KV High Voltage Test



### Technical Specifications

Working mode	Infusion, withdrawal, infusion/withdrawal, withdrawal/infusion, continuous, additional mode (infusion/withdrawal, then exclude bubble).						
Channel number	1	2	4	6	8	10	12
Syringe size	10 $\mu$ L-140mL			10 $\mu$ L-10mL			
Syringe selection	Syringe size and customized diameter						
Linear speed range	5 $\mu$ m/min-132 $\mu$ m/min(Flow rate=Linear speed* syringe inner cut area )						
Min. linear rate	5 $\mu$ m/min						
Linear force	$\geq$ 16kgf						
Max. stroke	140mm						
Stoke resolution	0.078 $\mu$ m/ $\mu$ step						
Accuracy	Error $\leq$ $\pm$ 0.5%, Stroke $\geq$ 30% of maximum stroke						
Display mode	320 $\times$ 240TFT-LCD						
Control method	Rotary encoded switch and imported membrane keypad						
Power-off memory	Display the previous data parameter after power supply again						
External control	Active switch signal: 5V						
Communication interface	RS485, Modbus protocol(RTU mode)						
Power supply	AC 220V $\pm$ 10%(standard), AC 110V $\pm$ 10%(option)						
Condition temperature	0-40 $^{\circ}$ C						
Relative humidity	<80%						
IP rate	IP31						
Dimension(mm)	282*213*150	282*241*157	282*241*157	282*241*157	282*241*157	282*241*157	282*241*157
Weight	5.26kg	5.40kg	5.40kg	5.66kg	5.78kg	5.96kg	6.16kg

Syringe	Inside Diameter(mm)	Flow Rate( $\mu$ L/min-mL/min)	
		SPLab01/SPLab02	SPLab04-SPLab12
1mL	4.70	0.087~2.290	0.087~2.290
2.5mL	9.70	0.370~9.755	0.370~9.755
5mL	12.48	0.612~16.147	0.612~16.147
10 mL	15.89	0.992~26.177	0.992~26.177
20mL	20.00	1.571~41.469	—
30 mL	22.50	1.988~52.484	—
50 mL	28.90	3.280~86.588	—