

INJAE SCIENCE CO.

Add: 2 FLOOR, 228-10 MYUNG-IL DONG, GANGDONG GU, SEOUL, SOUTH KOREA

Website: www.pump114.co.kr

Tel: (02)2275-3623, (02)2268-9345

Fax: (02)2275-3624, (02)2268-9346

Intelligent Flow Rate Peristaltic Pump- Lab V Series

Model No.: Lab V1, Lab V3, Lab V6



Baoding Shenchen Precision Pump Co., Ltd.

Acceptable Pump Head: YZ1515x, YZ2515x, SN Series, MC Series



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New Features

1. Portable handheld design, feel comfortable and stable.
2. Delicate touch pen design.
3. Multifunction protective cover for external control interface, can be used for tool box, install common tools.
4. Hidden external control interface, protective cover can protect the interface and data lines effectively.



Product Introduction:

Intelligent type flow rate peristaltic pump, with ABS engineering plastic housing, streamlined body design. Industrial grade 4.3 inch true color LCD screen display, touch screen control. Speed range is 0.1-600 rpm, flow rate range is 0.000067-2280ml/min. Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen. Intelligent calibration and online micro adjusting function. 3 kinds of working mode: fixed volume metering, fixed time and volume, timer start and stop, meet different transferring and dispensing request. The unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump working status. Various external control modes for option, also have programmable external control mode. Support RS232 and RS485 communication interface, standard MODBUS communication protocol, achieve external control under different industrial conditions. It is the ideal choice for laboratory, instrument and industrial production.

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Function and Features:

1. Imported 4.3 inch - industrial grade - true color LCD screen , clear picture quality. Dynamic display real-time working status. The flow rate, motor speed, setting parameters and system configuration display in the same screen.
2. Imported touch screen control, high hardness, resisting scratch, high sensitivity, attention to users experience.
3. Stepper motor drive, control precisely.
4. Shenchen-V-CIR circuit system all use imported chips, computing fast, reliable performance, working stable.
5. Shenchen-V-EMB operation system, embedded software design, powerful function, friendly interface, attention to users' experience.
6. Intelligent calibration function, it can calibrate the flow rate and dispensing volume, ensure the flow accuracy, suitable for high accuracy transferring liquid.
7. Fixed volume measurement function: After turn on this function, the peristaltic pump will measure the liquid volume automatically, it will stop automatically after the volume reaches the set value. During this process, the flow rate can be changed. It is suitable for laboratory liquid dosing and chemical reaction process.
8. Fixed time and volume function: After turn on this function, the peristaltic pump will transfer preset volume within preset time. It is suitable for liquid dispensing in laboratory and industrial production.
9. Timer start and stop function: Can set the pump start and stop time freely, reach automation control .
10. Various external control functions, except the common start/stop, direction, speed control, and RS485/RS232 communication interface, also have Shenchen-V-EMB-PGM programmable external control function, meet different industrial control request.
11. On-line micro adjusting function, it can adjust the flow rate during production progress, to avoid the filling errors because of tubing fatigue and elasticity decreased.
12. Unique accurate angle control technology, achieve high accuracy dispensing and dosing.
13. Fast filling function can wash the tubing and also fill fluid into the tubing.
14. Power down memory function, store the running parameters in time, safe and reliable.

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15. Automatical temperature control system, reduce the noise of fan effectively.
16. Strong anti-jamming feature, wide voltage design, suitable for complex power supply environment .
17. Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.

Technical Specification:

<u>Flow rate range</u>	<u>Lab V1: 0.000067-570 ml/min</u> <u>Lab V3: 0.000067-1330ml/min</u> <u>Lab V6: 0.000067-2280ml/min</u>
<u>Speed range</u>	<u>0.1-600rpm</u>
<u>Speed resolution</u>	<u>0.01rpm</u>
<u>Flow rate resolution</u>	<u>0.001 μ l</u>
<u>Flow rate accuracy</u>	<u>±0.5%</u>
<u>Back suction angle</u>	<u>0-360°</u>
<u>Output pressure</u>	<u>0.1Mpa (0.86-1.0mm wall thickness tubing)</u> <u>0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)</u>
<u>Motor type</u>	<u>Stepper motor</u>
<u>Circuit system</u>	<u>Shenchen-V-CIR</u>
<u>Operation system</u>	<u>Shenchen-V-EMB</u>
<u>Display</u>	<u>4.3 inch industrial grade true color LCD screen</u>
<u>Control method</u>	<u>Touch screen and membrane keypad</u>
<u>External control signal</u>	<u>0-5V, 0-10V, 4-20mA for option</u>
<u>Start/stop, direction signal</u>	<u>Passive switch signal, such as: foot pedal</u> <u>Active switch signal: 5V, 12V, 24V for option</u>
<u>Communication</u>	<u>RS232 and RS485, support MODBUS protocol (RTU) mode</u>
<u>Output interface</u>	<u>Output motor working status (Open-Collector output)</u>
<u>Power supply</u>	<u>AC220V 10%, 50Hz/60Hz (standard)</u> <u>AC110V 10%, 50Hz/60Hz (standard)</u>
<u>Drive dimension</u>	<u>260 x 155 x 230mm (L x W x H)</u>
<u>Drive weight</u>	<u>5.12kg</u>
<u>Power consumption</u>	<u><50W</u>
<u>Environment temperature</u>	<u>0-40°C</u>
<u>Relative humidity</u>	<u><80%</u>
<u>IP rate</u>	<u>IP31</u>

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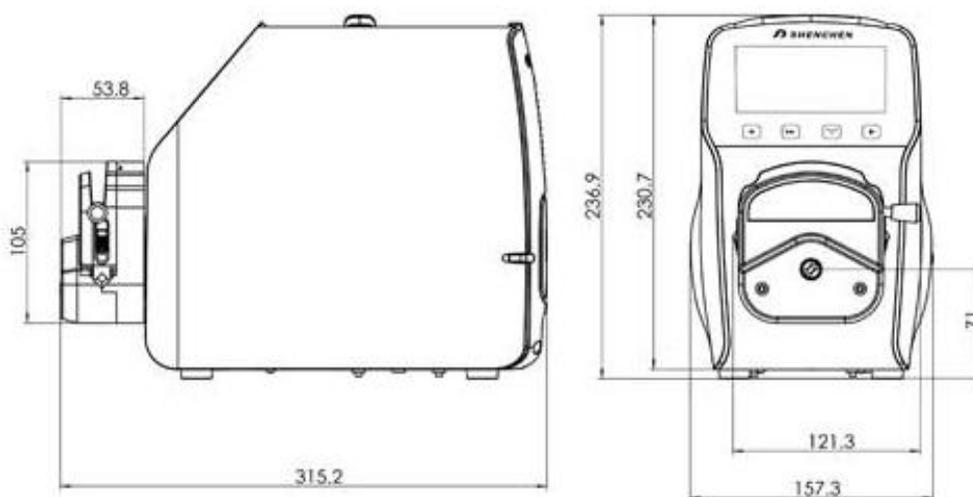
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Product Composition and Flow Rate:

Drive	Speed Range	Pump Head	Tubing Size	Flow Rate (mL/min)
Lab V1	0.1-150rpm	YZ1515x	13#,14#,19#, 16#,25#,17#, 18#	0.007~570
		YZ2515x	15#, 24#	0.17~435
		MC1-MC12	ID:0.13-3.17mm, Wall thickness: 0.8-1.0mm	0.000067-45
		SN25/15	14#, 16#, 25#	0.024-375
Lab V3	0.1-350rpm	YZ1515x	13#,14#,19#, 16#,25#,17#, 18#	0.007~1330
		YZ2515x	15#, 24#	0.17~1015
		MC1-MC12	ID:0.13-3.17mm, Wall thickness: 0.8-1.0mm	0.000067-45
		SN25/15	14#, 16#, 25#	0.024-875
Lab V6	0.1-600rpm	YZ1515x	13#,14#,19#, 16#,25#,17#, 18#	0.007~2280
		YZ2515x	15#, 24#	0.17~1740
		MC1-MC12	ID:0.13-3.17mm, Wall thickness: 0.8-1.0mm	0.000067-45
		SN25/15	14#, 16#, 25#	0.024-1500

Product Dimension



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