

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 Dispensing Peristaltic Pump- Lab F Series

Model No.: Lab F1, Lab F3, Lab F6



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 dispensing peristaltic pump, with ABS engineering plastic housing, streamlined body design. Industrial grade 4.3 inch true color LCD screen display, touch screen control. Can preset dispensing volume, dispensing time, pause time, copy numbers and back suction angle. Dynamic display the working status, dispensing data, setting parameters and system configuration in the same screen. Intelligent calibration and online micro adjusting function. Can connect with foot pedal or receive switch signal, achieve external control. The unique motor working status output signal, can be used for other equipments monitoring the peristaltic pump working status. This pump suitable for large flow volume, high efficiency and precision filling.

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Function and Features:

1. Imported 4.3 inch - industrial grade - true color LCD screen, clear picture quality, more guarantee quality. Dynamic display dispensing status, dispensing volume, dispensing time, pause time, copy numbers and system setting 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-F-CIR circuit system all use imported chips, computing fast, reliable performance, working stable.
5. Shenchen-F-EMB operation system, embedded software design, powerful function, friendly interface, attention to users' experience.
6. Intelligent calibration function, can calibrate the flow rate or dispensing volume, ensure the flow rate accuracy. Suitable for high precision liquid filling.
7. The dispensing total number counting function, need to clear the numbers by manual. This is convenient for counting dispensing numbers when manual dispensing.
8. Online micro adjusting function. During the production process, if the tubes fatigue or abrasion, you can use the online micro adjusting function to adjust the flow rate without stop the pump.
9. The pump can store 60 commonly used filling modes, save users setting time.
10. Back suction angle setting, avoid liquid drop off when the pump stop working.
11. External control start/stop function, it can connect with foot pedal switch, also can be unified controlled by the host computer when working in filling line.
12. Automatic temperature control system, reducing the fan noise effectively.
13. Power down memory function, store the running parameters in time, safe and reliable.
14. Fast filling function, not only can be used for washing the tubing, but also can fill liquid to the tubing fast.

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15. **Strong anti-jamming feature**, wide voltage design, suitable for complex power supply environment.

16. Circuit board spray with three paint, anti-dust, anti-moisture, anti-static, resist corrosion.

Technical Specification:

Flow rate range	Lab F1: 0.000067-570 ml/min Lab F3: 0.000067-1330ml/min Lab F6: 0.000067-2280ml/min
Speed range	0.1-600rpm
Speed resolution	0.01rpm
Dispensing volume range	0.1-9999.99mL
Dispensing volume resolution	0.01mL
Dispensing time	0.5-9999.99s
Pause time	0.5-9999.99s
Time resolution	0.01s
Copy numbers	1-9999times, '0' means unlimited
Back suction angle	0-360°
Dispensing accuracy	< ±0.5%
Motor Type	Stepper motor
Circuit system	Shenchen-F-CIR
Operation system	Shenchen-F-EMB
Display	4.3 inch- industrial grade-true color LCD screen
Control	Touch screen with membrane keypad
Start/stop, direction signal	Passive switch signal, such as: foot pedal Active switch signal: 5V, 12V, 24V for option
Communication	RS232 and RS485, support MODBUS protocol (RTU) mode
Output interface	Output motor working status (Open-Collector output)
Power supply	AC220V 10%, 50Hz/60Hz (standard) AC110V 10%, 50Hz/60Hz (standard)
Output pressure	0.1Mpa (0.86-1.0mm wall thickness tubing) 0.1-0.27Mpa (1.6-2.4mm wall thickness tubing)
Drive dimension	260 x 155 x 230mm (L x W x H)
Drive weight	5.12kg
Power consumption	<50W
Environment temperature	0-40℃
Relative humidity	<80%
IP rate	IP31

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Product Composition and Flow Rate:

Drive	Speed Range	Pump Head	Tubing Size	Flow Rate (mL/min)
Lab F1	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 F3	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 F6	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

Filling Volume Reference Parameter (media is water)

Controller	Pump Head	Tubing	Filling Volume(ml)	Filling time (s)	Filling Precision (±10%)	Output (pcs/min)	Speed (rpm)
F6	YZ1515x YZ2515x	13#	0.1	0.5	±5µl	60	204.083
		13#	0.3	0.7	1.5	42	426.251
		13#	0.5	1	0.8	30	516.081
		13#	1	2	0.5	15	517.152
		14#	2	1	1	30	446.724
		14#	3	1.5	0.8	20	446.479
		19#	5	1.2	1	25	454.919
		16#	7	1	0.5	30	457.705
		25#/15#	10	1	1	30	303.426
		25#/15#	15	1	0.8	30	461.273
		25#/15#	20	1.2	0.5	25	518.945
		17#/24#	30	1.2	0.8	25	462.725
		17#/24#	50	2	0.5	15	461.595
		18#	80	2.5	0.5	12	427.274
		18#	100	3	0.5	10	446.583
		18#	150	4	0.5	8	505.553

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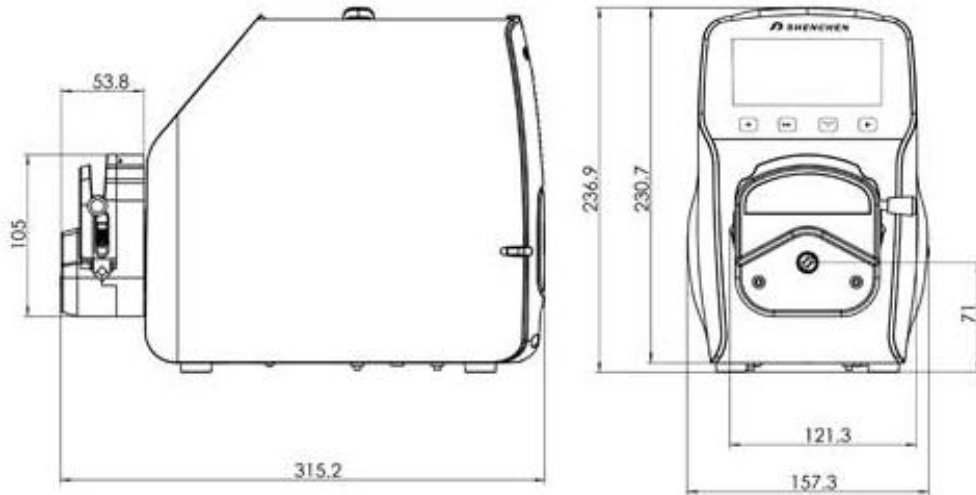
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Product Dimension



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