

IP67/IP66

MF118 High-Protection Peristaltic Pump

Lead Fluid **MF118** high-protection peristaltic pump, designed and developed for pharmaceutical and industrial applications. With IP66/IP67 high protection level, it possesses dust-proof and short-term liquid immersion capabilities, enabling stable operation in harsh environments such as dust, humidity, weak acid and alkali, and salt spray for extended periods.

Feature

- **Precision-crafted cast aluminum shell**

Streamlined appearance, lightweight cast aluminum powder-coated shell, excellent heat dissipation, strong corrosion resistance.

- **Integrated structure, great integrity**

The pump head and the driver are integrated, easy installation.

- **Seven-inch large screen, clear at a glance**

A seven-inch color LCD touch screen with wide viewing angles, making operation simple.

- **Servo motor drive**

High-precision operation, high torque, low noise.

- **Five working modes**

Offers flow mode, volume mode, time dispensing mode, programming mode, and external control mode, flexibly meeting various scenario requirements.

- **Multiple sensing technologies**

Lid opening stop function, leak detection stop function (optional), enhancing safety.

- **Intelligent interconnection, collaborative operation**

Supports RS485 communication, compatible with Modbus protocol.

- Three-level user permission management, security protection, no need to worry about parameter tampering.

- Selects top-brand raw materials, meticulously selected, quality guaranteed.

- Equipped with KL series pump heads, featuring observation windows and mechanical locks, enhancing safety.

- With a patented calibration method, shortens the time by three times compared to conventional operations, reducing liquid usage by three times.

Flexible Tube Model And Flow Parameters

Pump Head	Speed	Tube Material	Tube	Max Flow (L/min)
KL40 Pump Head	50rpm	Silicone	187#	3.85L/min
			186#	2.25L/min
	150rpm	Silicone	187#	12.35L/min
			186#	6.85L/min
	265rpm	Silicone	187#	20.85L/min
			186#	12.35L/min

Above flow parameters are obtained by using silicone tube to transfer pure water under normal temperature and pressure, in actually using it is effected by specific factors such as pressure, medium etc. Above for reference only.

Technical Parameter

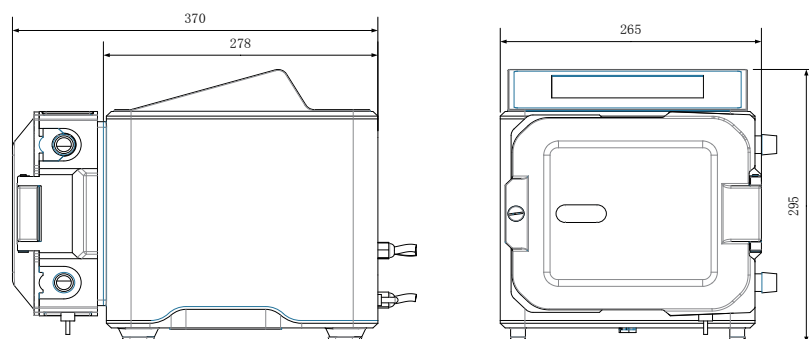
Parameter	MF118
Flow range	7~20000mL/min
Speed range	0.1~265rpm
Speed resolution	0.1 rpm
Speed accuracy	< ±0.2%
Delay start time	1S~999 H
Timing	1S~999 H
Working time	0.1~99.99S
Dispensing time	1 ~ 999, "0" Infinite loops
Dispensing interval time	0.1~999 S/Min/H/D
Reverse Angle	0~720 degrees
External control signal input	(1) Start/Stop: passive contact, external control input level (5~24V) (2) Forward/Reverse: passive contact, external control input level (5~24V) (3) Speed Regulation: analog 0~5V, 0~10V, 4~20mA can be set.
External control signal output	(1) Start/Stop: Level Signal (following input voltage) (2) Forward/Reverse: Level Signal (following input voltage)
Communication interface	RS485, RS232, Ethernet, Modbus protocol is available, profibus communication (optional)
Power supply	AC 100~240V 50Hz~60Hz
Power consumption	<400W
Working environment	Temperature 0 ~ 40°C, relative humidity < 80%
Shell material	Aluminum
IP grade	IP66/IP67
Dimension (L×W×H)	370*265*295 mm
Drive Dimension (L×W×H)	278*265* 295 mm
Weight	20kg

MF118 Applicable Pump Head and Tube, Speed, Flow

Drive Type	Pump Head	Channel	Tube	Single Channel Flow Rate (mL/min)
MF118	KL40	1	187#186#	7~20000mL/min

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Dimension(mm)



Statement: The final explanation right of above information belongs to Lead Fluid.