

### • Product Introduction

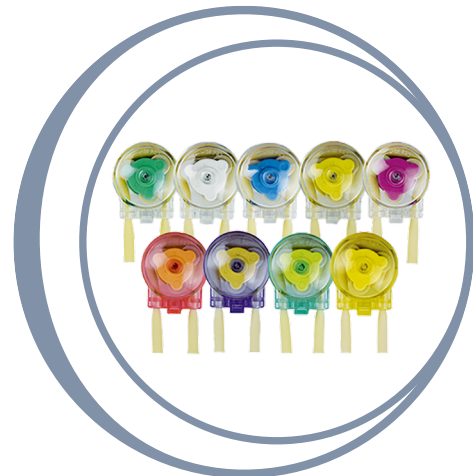
- ABS engineering plastic housing, anti-corrosion, anti-static.
- OLED screen display motor speed, digital knob control speed.
- Compact design, various external control.
- Easy to observe the pump head and tubing working situation

### • Product Features

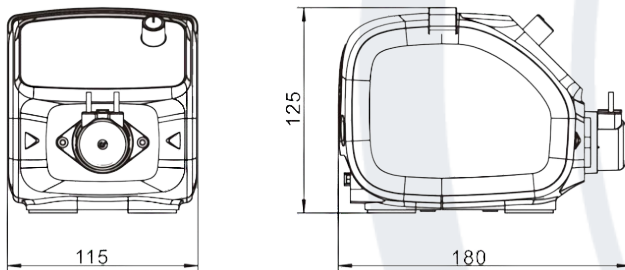
- Low power consumption, mute working.
- Stable flow rate and suitable for continuous dosing applications.
- Easy to replace long life PharMed tubing.
- Digital knob control speed, memory back up, user setting saved if power lost.



### • Color selection



### • Dimension Drawing (Unit: mm)



### • Technical Specifications

<b>Flow rate range</b>	0,004-63,96 ml/min	<b>External control</b>	Start/stop direction control (switch signal)
<b>Speed range</b>	0,1-150 rpm reversible		0-5V, 4.20mA (standard)
<b>Speed resolution</b>	0,1 rpm	<b>Power adapter</b>	0-10V (optional)
<b>Speed control</b>	Digital knob		DC 12V/1A with power adapter
<b>Control method</b>	Mechanical keypad	<b>Dimension</b>	180*115*125 mm (LxWxH)
<b>Keypad lifetime</b>	300,000 times	<b>Weight</b>	0,8 kg
<b>Display</b>	0.96" OLED display	<b>Relative humidity</b>	0-40°C
<b>Communication interface</b>	USB connector, RS485 interface (MODBUS protocol, RTU mode)	<b>Humedad relativa</b>	<80 %
		<b>IP rate</b>	IP31

- Product Composition and Flow Rate Range

Model	Pump Head	Speed (rpm)	Tubing Size (IDxWall Thickness (mm))	Flow Rate Range (ml/min)
HF-LabK1	HF-MicroPump	0,1-150	1*1	0,004-6,38
			2*1	0,014-21,45
			3*1	0,031-47,26
			4*1	0,042-63,96