Product Manual

Kamoer Fluid Tech (Shanghai) Co., Ltd.

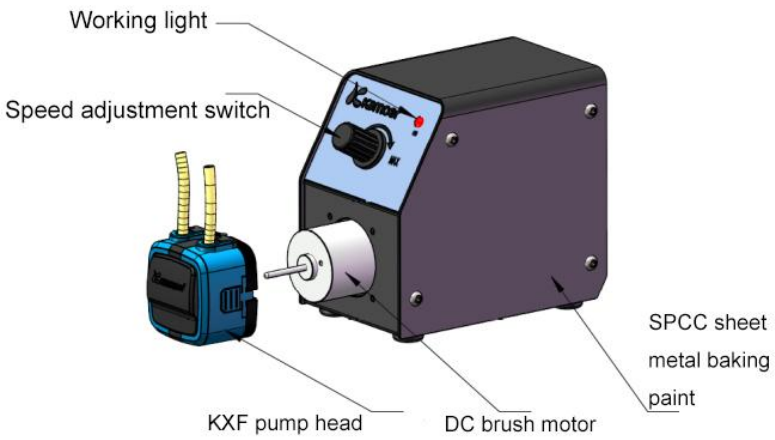
Version: A/0

Product name	Adjustable peristaltic pump
Product number	KCP2-KXF
Execution date	2022.03.04
Manufacturing unit	Kamoer Fluid Tech (Shanghai) Co., Ltd.

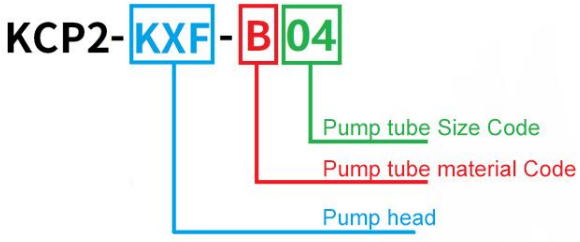
一、 Product Overview

1. Product physical picture

2. Product assembly drawing



3. Model interpretation (DC brush motor)



Pump tube material	Code	Picture	characteristic	Standards compliant
PharMed BPT	B		With very good resistance to general chemicals, as well as excellent resistance to acids, bases and oxides, the product is opaque and resistant to UV radiation, helping to protect sensitive liquids Working temperature: -60℃~135℃. Working life: 1000 hours	RoHS FDA

4. Optional pump tube material

5. Optional pump head

Pump head type	Pump tube wall thickness	picture
KXF	1.0mm	

6. Performance characteristics and typical applications

6.1 Performance characteristics

- Low-cost flow rate adjustment
- Easy and fast replacement of pump tubing
- Low noise, small space occupation
- Simple structure, maintenance free
- Three rotors, moderate pulsation

6.2 Typical application

- Laboratory: Liquid Transfer
- Industry: Pipeline Liquid Addition
- Medical: Liquid Food Delivery
- Pets: Aquaculture

7. The main material of the product

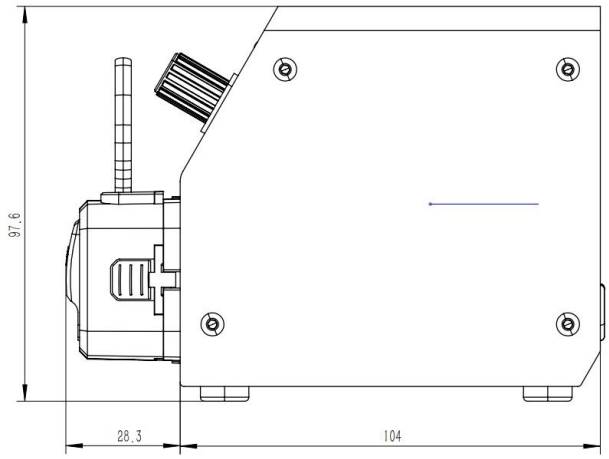
upper case/lower case	KXF pump head			
	front shell	back cover	rotor	bracket
Sheet metal paint	Engineering plastics	Engineering plastics	Engineering plastics	Engineering plastics

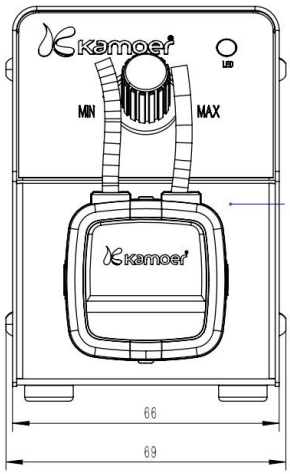
8. Product Risk Warning

- This product uses a DC brush motor. The motor life is limited. Continuous operation is not recommended. High overload operation may cause premature damage to the product.
- The hose is resistant to liquid media. It is necessary to check chemical compatibility or perform immersion experiments. Improper hose selection may cause the hose to be damaged quickly.
- The working environment of the product should not exceed 45 ℃, and the humidity should not exceed 70% (no condensing water). The harsh working environment will cause premature damage to the product.
- Fluid spills due to ruptured hoses depend on the fluid medium and your specific application
- If this product is not used for a long time, the resilience of the hose will deteriorate. It is recommended to replace the pump tube before use.

二、 Product Specifications

1. Dimensions





2. Technical parameter

project		technical parameter		
Basic parameters	Operating Voltage	D C12V		
	power	< 12W _		
	Motor type	DC brush motor		
	Motor life	Not less than 8 00 hours		
	pump head	3 Rotor KXF Pump Head		
	Flow range	4 ~ 41.5 ml / min		
	way to control	Potentiometer knob manual speed adjustment		
	Total Weight	About 500 grams (without power adapter), about 700 grams (with power adapter)		
	working environment	Temperature 0 ~ 40 ℃ , relative humidity < 80 %RH		
	Reference noise value	≤40dB (the horizontal distance between the test product and the noise meter is 0.5 meters)		
Pump tube flow	Reference flow (unit: ml/min)			
	Model code	B04	B 06	B 08
	Pump tube material	BPT pipe		
	Inner diameter * outer diameter (mm)	1.0 * 3.2	2.0 * 4.0	2.5 * 4.5
	Flow range (ml/min)	4~ 10	9. 3 ~ 32	1 4 . 6 ~ 41 . 5
	Is it a standard product	Yes	no	Yes

Note: The above maximum flow rate is obtained at room temperature (about 25 °C), using a new pump tube that has been aged for 30 minutes to test water, and is for reference only. The ambient temperature, the material and elasticity of the pump tube, the viscosity of the test liquid and other factors will affect the actual flow rate. The thickness of the pump tube will affect the maximum speed of the actual stable operation.