

## Kamoer Fluid Tech(Shanghai) Co., Ltd.

Version: A/4

Product name	Micro peristaltic pump		
Product number	KCM		
Execution date	2022. 12. 07		
Manufacturing unit	Kamoer Fluid Tech(Shanghai) Co., Ltd.		



Model: KCM

Name: Peristaltic Pump

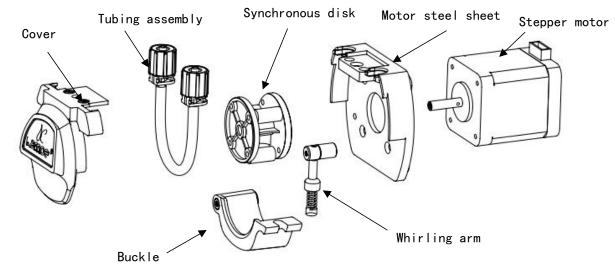
Doc Number: CPBZ-KCM-01 Version number: A4 Effective date: 2022-12-07

-, Product Overview

### 1. Product physical map



## 2. Product assembly drawing



3. Model definition

KCM	В	14	3	Null
Model	Cast	Tube number	Rotor	Installation method

#### 3.1 Tube type

B: BPT pump tube



	Product Manual   Name: Peristaltic Pump Model: KCM		Doc Number: CPBZ-KCM-01   Version number: A4   Effective date: 2022-12-07	
Скатоег				
Precise And Reliable Fluid Transfer				
3.2 Pipe number				
14# (inner diameter×ou	ter diameter): Metric 1.6	mm $ imes$ 4.8mm		
19# (inner diameter×ou	ter diameter): Metric 2.4	mm×5.6mm		
16# (inner diameter×ou	ter diameter): Metric 3.2	mm×6.4mm		
3.3 Rotor				
3 rotors				
3.4 Installation method				
Empty: standard install	ation			

3.5 Product material

Pump head model	Front cover	Base	Sync disk	Buck I e	Rotor	Connector
КСМ	PC	PA	POM	PA	PET	PP

#### 4. Performance characteristics, typical applications

4.1 Performance characteristics

KCM series peristaltic pump is a peristaltic pump driven by a stepping motor, and the imported motor has superior performance

Pump tube is imported BPT(B) with a wall thickness of 1.6mm, and other pump tubes can be customized for different transmission liquid requirements

Compatible with pump tubes of various specifications to meet different liquid transmission needs

Simple structure, low noise, quick replacement of pump tube

Installation method is plate-through fixing or optional L -shaped fixing, with shock absorption or without (see attached picture for details)

Structural parts of the pump body are made of high-strength synthetic engineering plastics, and all metal parts are made of high-corrosion-resistant stainless steel to ensure long-term reliable operation of the pump

4.2 Typical applications

Analytical instruments: water quality analyzer, nutrient solution ratio, aquarium water change, etc.



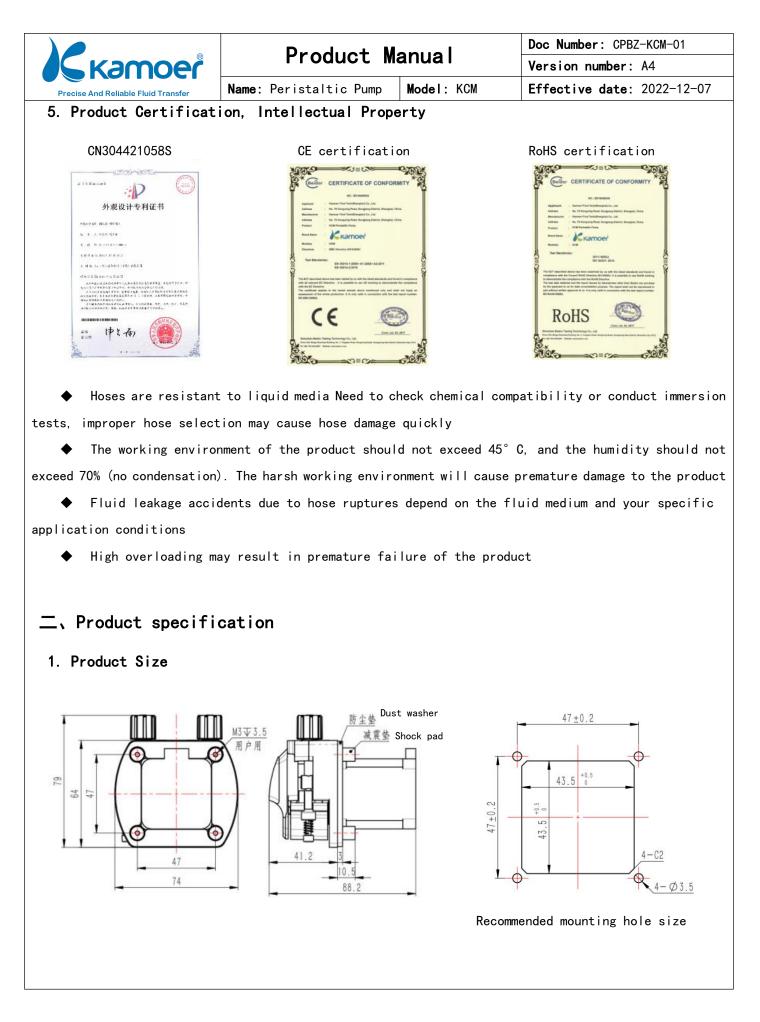






The aquarium changes the water









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2. Technical parameters

	ltem		Technical parameter			
	Motor type	Stepper motor				
	Fow range	0-200ml/min; accuracy $\pm$ 10%				
	Noise	≪60dB				
Basi	Power	36W				
0	Control method	Switch control				
arar	Weight		About 450g			
parameters	Rated voltage	24V				
s	Pump tube life	BPT: 1000h				
	Motor life	6000h				
	Reference noise value	In a quiet room with an ambient noise of 35dB, the product is 50cm away from the oise tester, and the noise is 52dB				
		Reference flow rate (unit: ml/min)				
P	Pump tube code	14#	19#	16#		
Pump flow	ID × OD	Metric: 1.6mm×4.8mm Inch: 1/16in×3/16in	Metric: 2.4mm×5.6mm Inch: 3/32in×7/32in	Metric: 3.2mm×6.4mm Inch: 1/8in×1/4in		
Ŵ	Pump tube material	BPT				
	300rpm (3 rotors)	≥38ml/min	≥90ml/min	≥160ml/min		
Supplementary NoteThe above parameters are measured with pure water without temperature and standard atmospheric pressure at 20° C. Actual certain errors in the flow rate due to different media, different and DC motor speed errors. The data are for reference only. In a customized according to customer needs.			C. Actually, there will be different outlet pressures,			

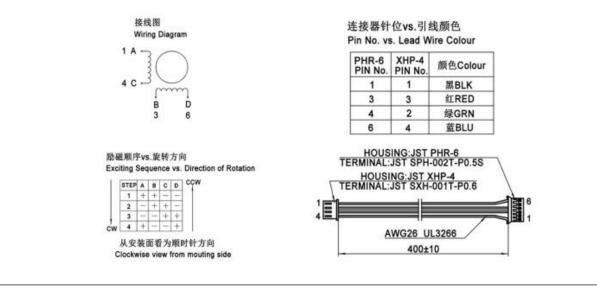
#### 3. Motor parameters and line color diagram

Step angle:1.8 ° Two phases and four lines The wiring length is 400mm

步距角 1.8°

两相四线

配线长 400mm



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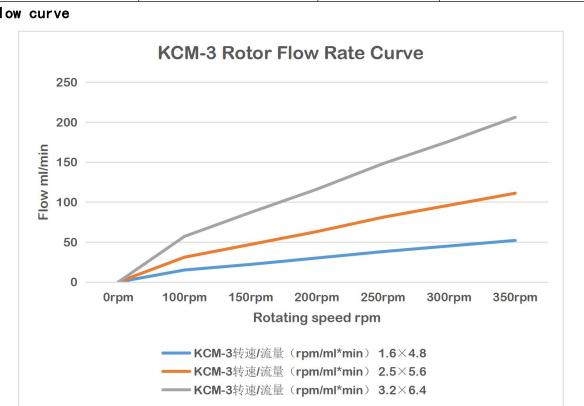
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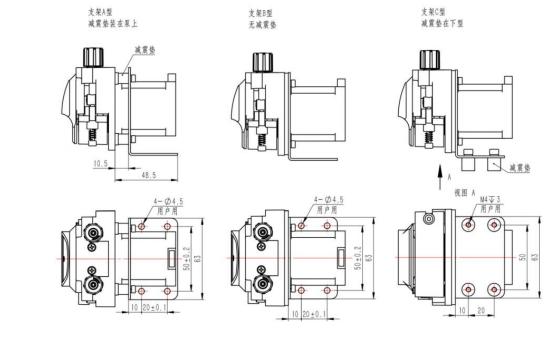
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4. Flow curve



#### 5. L type installation

- A: The shock pad is attached to the pump.
- B: No shock pads
- C: The shock pad is underneath.



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## $\Xi$ , Adapter hose

Pump tube material	Characteristic	Standards compliant	Tube number	
BPT tube (B)	Resistance to common chemicals, acid and alkali, and oxidation, with a lifespan of more than 1000h	RoHS FDA	14#, 19#, 16#	

## 四、Optional accessories

Name	Specifications		Function introduction
Threaded	KCM special		Inner 0.6mm-2.0mm hose
joint	connector 1		1.8mm-2.4mm hose can be connected externally
Threaded	KCM special		Inner 2.0mm-3.2mm hose
joint	connector 2		2.5mm-3.2mm hose can be connected externally
Peristaltic pump stepper drive	MODBUS — RTU		Can realize built-in and external potentiometer speed regulation, can realize MODBUS RS485 communication and O-10V analog speed regulation, realize electric and trigger two start and stop modes, subdivision maximum 32, drive current can be set (0. 7A, 1. 2A, 1. 7A, 2. 2A, 2. 7A, 2. 9A, 3. 2A, 4. 0A)

