

Product Manual

Kamoer Fluid Tech (Shanghai) Co., Ltd.

Version: A/3

Product name	Adjustable peristaltic pump
Product model	M1-NKP-DC
Execution date	2026.05.26
Company name	Kamoer Fluid Tech (Shanghai) Co.,Ltd.

 Precise And Reliable Fluid Transfer	Product Manual	File No.: CPBZ-M1-NKP-DC-01
		Ver: A3
	Name: Adjustable peristaltic pump	Date: 2026-05-26

1. Product Overview

1.1 Product physical picture



1.2 Model definition

M1-NKP-DC-P06B-AW	M1	NKP	DC	P	06	B	A	W
Model	Product model	Pump head model	Motor model	Tube type	Tube number	Tube color	Placement type	Shell color

- Motor Type: DC – Direct Current Motor
- Tube Type: P – Perx Tube, B – BPT Tube, S – Silicone Tube
- Tube Size: 04#: 1×3.3 mm, 08#: 2.5×4.5 mm, 10#: 3×5 mm, 06#: 2×4 mm
- Housing Color: W – White

1.3 Interface definition



Definition of each interface:

- | | |
|----------------------------|----------------------------|
| 1. Pump head | 2. Speed - regulating knob |
| 3. Working indicator light | 4. DC12V power interface |

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1.4 Optional Pump head

Pump head type	Number of rotors	Picture
NKP	3 rotors	

1.5 Optional Pump pipe

Material	Code	Icon	Characteristic	Standards
Perx	P		Long service life; low inner - wall precipitation; repeatable offline or online sterilization; Meet biocompatibility requirements; extensive extractables research; produced in ISO Class 7 clean rooms.	RoHS FDA
PharMed BPT	B		Has excellent resistance to general chemicals, as well as excellent acid, alkali, and oxide resistance. The product is opaque and resistant to ultraviolet radiation, helping to protect sensitive liquids; Working temperature: -60 °C~135 °C.	RoHS
Silicone tube	S		Low adsorption, good temperature resistance, not easy to age, low precipitates, etc., the chemical corrosion resistance decreases with the increase of temperature; Working temperature: -60°C~200°C.	RoHS Comply with food grade certification (GB4806.11-2016)

1.6 Performance characteristics and typical applications

1.6.1 Performance characteristics

- Low - cost regulation of flow rate, with a large speed - regulation range and stable flow
- The pump head is easily disassembled, enabling quick replacement of the pump tube
- Simple structure and maintenance - free
- No pollution, and the pulsation of the three - rotor is moderate
- Planetary friction - type deceleration drive



1.6.2 Typical Applications

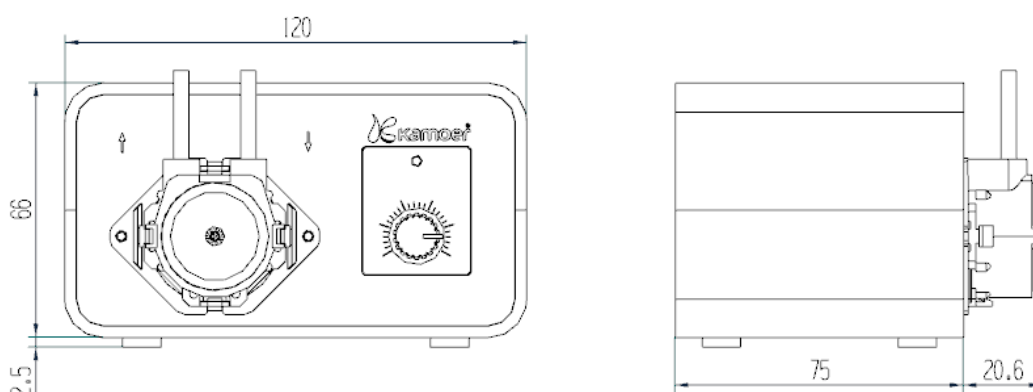
- Laboratory: liquid transfer, reagent dispensing.
- Industry: liquid addition in production lines, fine chemical industry.
- Water treatment: aquarium breeding, environmental protection.

1.7 Daily Maintenance and Precautions

- This product uses a DC brushed motor, which has a limited service life. Continuous operation is not recommended, and working under high - overload conditions may cause the product to be damaged prematurely
- For the hose to withstand liquid media, the chemical compatibility needs to be checked or immersion experiments need to be conducted. Improper hose selection may lead to rapid hose damage
- The operating environment temperature of the product is from 0°C to 40°C, with a relative humidity of less than 80% RH and no condensation. Harsh working environments will lead to premature product damage
- Liquid leakage accidents caused by hose rupture depend on the liquid medium and your specific application conditions
- Long - term non - use of this product will result in deterioration of the hose's rebound performance. It is recommended to replace the pump tube before using it again after long - term non - use

2. Product specification

2.1 Product Size



2.2 Product main material

Upper / lower shell	Front / Rear plate	NKP pump head				
		Front shell	Rear cover	Rotor	Cage	Motor Mount
Engineering plastics	Engineering plastics	POM	POM	Engineering plastics	PA	PA

2.3 Technical Parameters

Project		Technical parameters			
Basic parameters	Power supply	DC12V			
	Power	<12W			
	Overall weight	About 247g (it does not contain a power adapter)			
	Motor type	DC (direct - current) brushed motor			
	Motor life	≥ 800 hours			
	Pump head	3 - rotor NKP pump head			
	Control method	Manual speed regulation by potentiometer knob			
	Supported functions	start - stop and speed regulation			
	Work environment	Temperature 0 °C~40 °C, relative humidity<80% RH, no condensation			
	Reference noise value	≤ 55dB (the horizontal distance between the product and the noise meter is 0.5 meters)			
	Pump head	NKP			
	Number of rotors	3			
	The code of the pump tube	P06	B08	S04	S10
	Pump pipe material	Perx	BPT	Silicone	
	Inner diameter * outer diameter (mm)	2*4	2.5*4.5	1*3.3	3*5
	Max. Reference Flow (ml/min)	30	46	10	65

Note: The maximum flow rate above was obtained by testing water with a new pump tube aged for 30 minutes at room temperature (approximately 25 °C), for reference only. Environmental temperature, material and elasticity of the pump tube, and viscosity of the testing liquid can all affect the actual flow rate. The thickness of the pump pipe will affect the maximum rotational speed for actual stable operation.



3. Instructions for placing an order

3.1 Overall unit

Name	Material number
M1-NKP-DC-P06B-AW	CA.01.01.0003
M1-NKP-DC-B08B-AW	CA.01.01.0015
M1-NKP-DC-S04B-AW	CA.01.01.0014
M1-NKP-DC-S10B-AW	CA.01.01.0016

3.2 Accessory

Parts name	Type	Accessories picture	Function introduction
Integrated power adapter 32.04.0001	Standard		It is used for power supply

