

## Micro Vacuum Pump(Air pump)

### KVP8 series vacuum pump



- Pretty
- Low noise
- High flow rate
- High negative pressure

### Applications



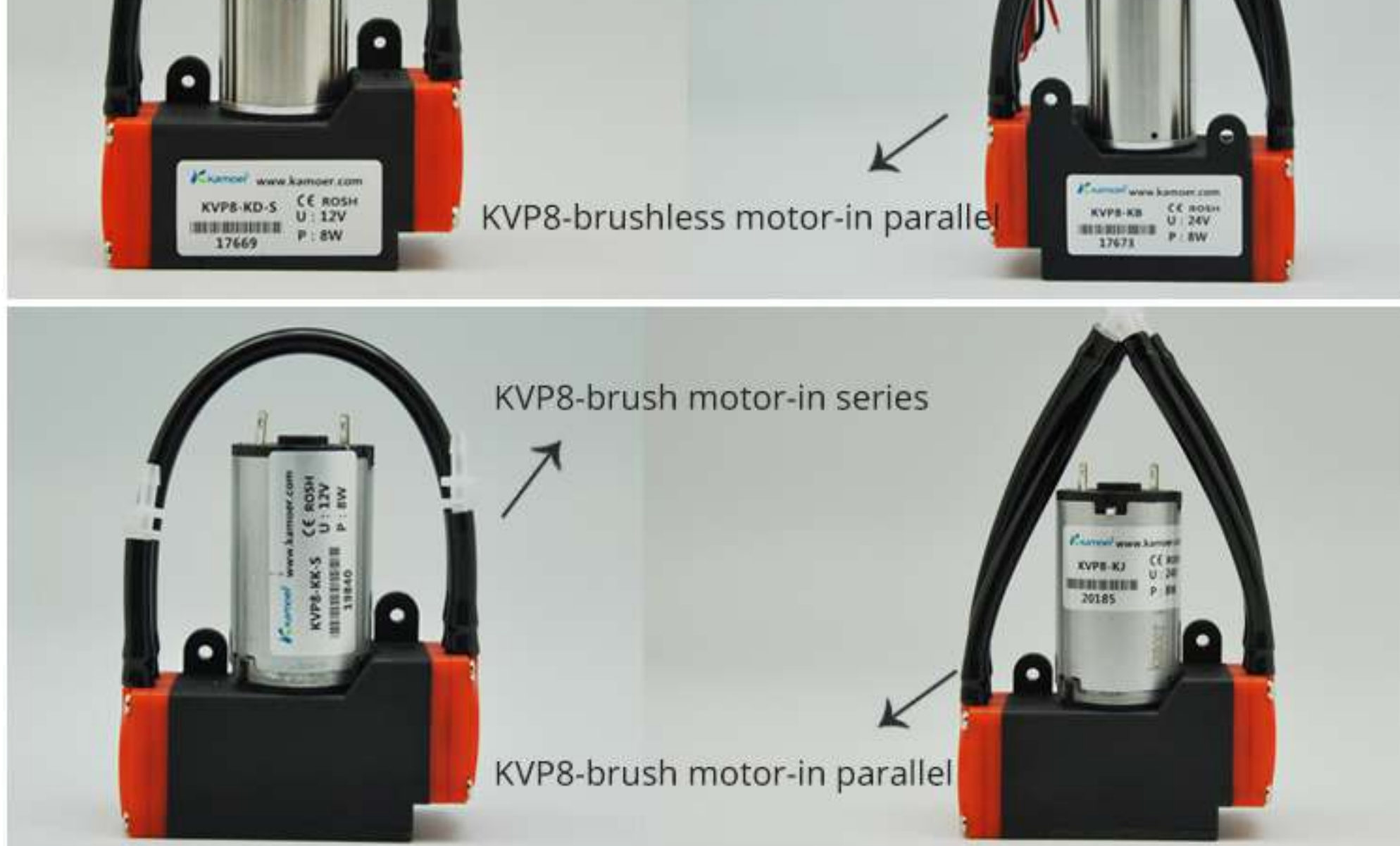
### Parameters

Micro diaphragm gas pumps from kamoer are based on a simple principle-an ekastic diaphragm, fixed on its edge, moves up and down its central point by means of an eccentric. In this way the gas is transferred using automatic valves.

### Features

- Small but powerful
- Negative pressure (In series) : <math>< 0.082\text{Mpa}</math>
- Negative pressure(In parallel) : <math>< 0.06\text{Mpa}</math>
- Dry running , durable and maintenance free
- Brush motor and brushless motor for selection
- Flow rate: >480L/H
- Air positive pressure: >0.1Mpa
- Chemical stability

KVP8 series has 4 models, features and pictures as follows:



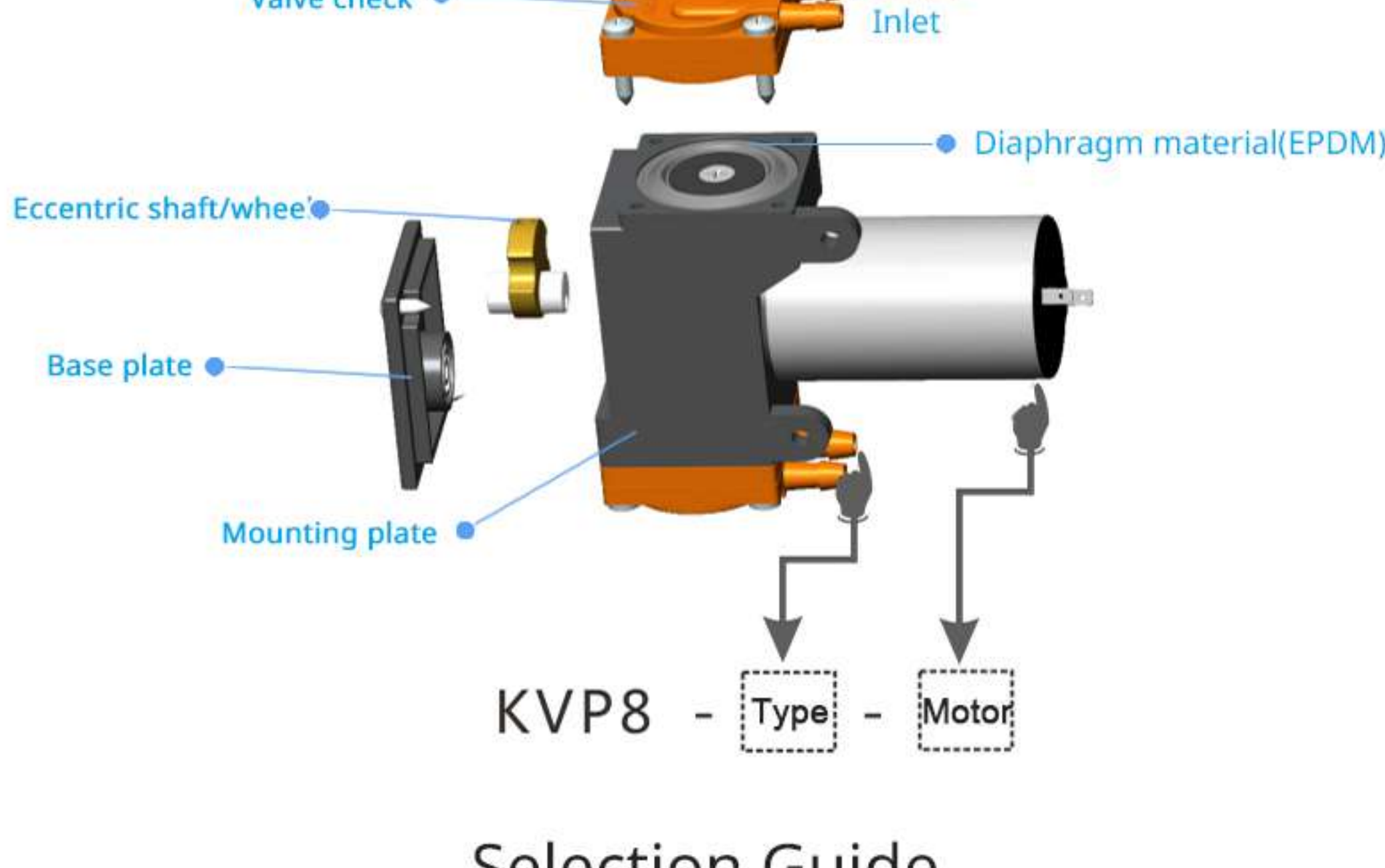
#### The difference between Brush motor and Brushless motor is Lifetime

Brush motor: 2000H
Brushless motor: 6000H

#### The difference between in series and in parallel is pressure & flow rate

In Series: with high vacuum degree 0.082Mpa
In Parallel: with high flow rate 480L/H

## Details



KVP8 - Type - Motor

## Selection Guide

Series	Connection Type	Motor	Life time	Voltage	RLA (Rated load current) (A)	Positive Pressure (Mpa)	Negative Pressure (Mpa)	Flow (L/H)	Working Pressure	Noise
KVP8	in parallel	brush motor	2000H	6	2	≥0.1	≥0.06	≥480	100kap	68DB
				12	1.2					
		24	0.5							
		24	0.6							
	brushless motor	6000H	12	1.5						
			24	0.6						
in series	brush motor	2000H	2000H	6	2	≥0.12	≥0.082	≥320	120kap	
				12	1.2					
		24	0.5							
		24	0.6							
	brushless motor	6000H	6000H	12	1.5					
				24	0.6					

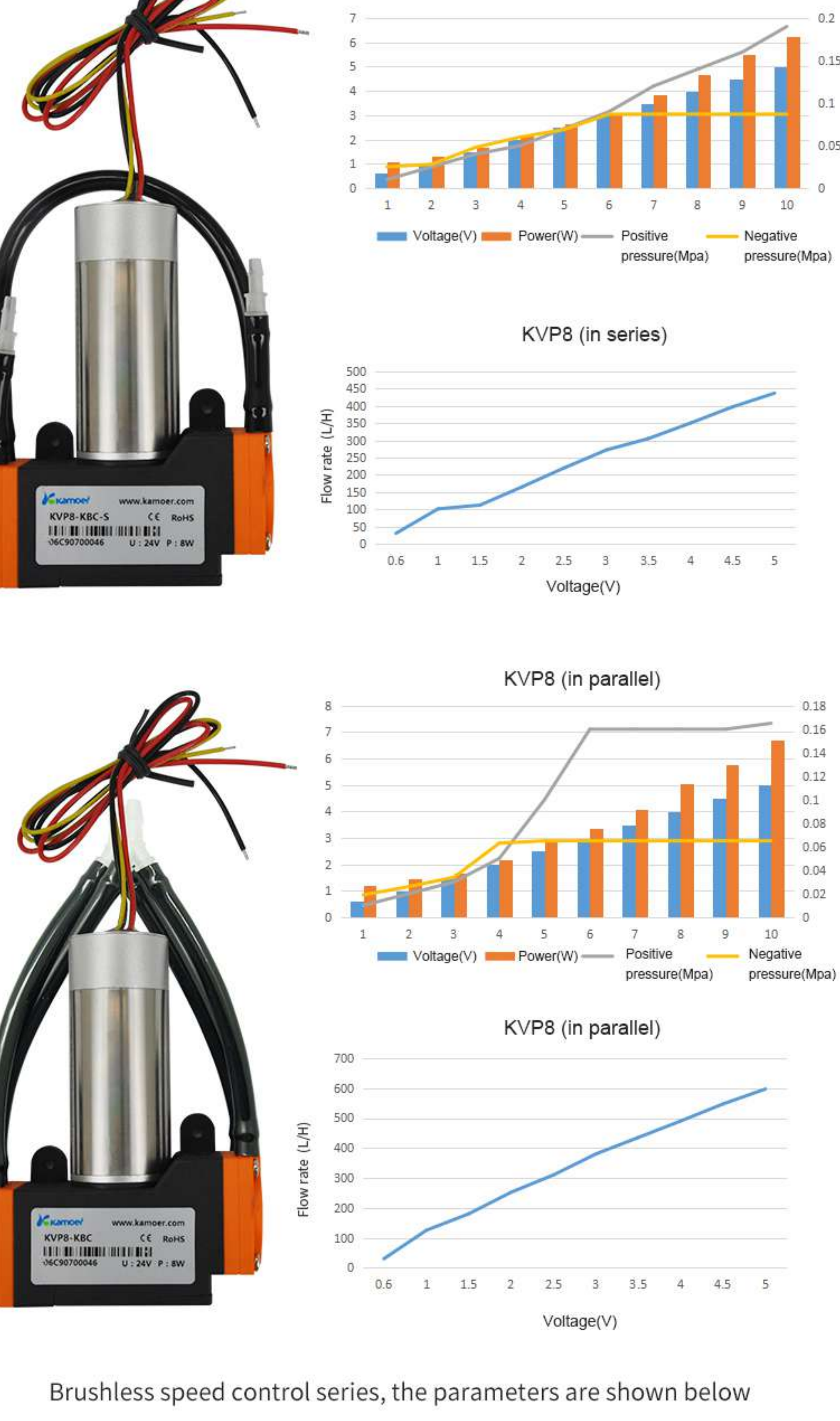
## General Specification

Weight	0.23~0.28KGS
Environment temperature range	0-40°C (0 to 104°F) (Note: Freezing must be prevented)
Ambient humidity range	<80% RH
Certifications & Approvals	ISO9001, CE, RoHS

## Size



## Multi-line speed diaphragm pump



Brushless speed control series, the parameters are shown below

Motor Type	Wiring Diagram	Description	Optional Program
2-Wire Built-in drive motor		1-UL1332 Red AWG20 Vcc (12V/24V) 2-UL1332 Black AWG20 GND	<ul style="list-style-type: none"> <li>1. Open loop: The most high-speed operation</li> <li>2. Closed-loop: fixed speed (such as conventional closed-loop 3500RPM)</li> </ul>
3-Wire Built-in drive motor		1-UL1332 Red AWG20 Vcc (12/24V) 2-UL1332 Black AWG20 GND 3-UL1332 Yellow AWG24 SP (0-5V Speed control)	<ul style="list-style-type: none"> <li>1. Open loop: 0V or Duty cycle 0% represents the lowest speed</li> <li>2. Closed loop: 0V or Duty cycle 0% represents the lowest speed</li> <li>3. Open-loop: 0V or Duty cycle 0% represents the highest speed</li> <li>4. Closed loop: 0V or Duty cycle 0% represents the highest speed</li> </ul>
4-Wire Built-in drive motor		1-UL1332 Red AWG20 Vcc (12/24V) 2-UL1332 Black AWG20 GND 3-UL1332 Yellow AWG24 SP (0-5V Speed control) 4-UL1332 Green AWG24 FG (Speed Feedback)	<ul style="list-style-type: none"> <li>1. Open loop: 0V or Duty cycle 0% represents the lowest speed</li> <li>2. Closed loop: 0V or Duty cycle 0% represents the lowest speed</li> <li>3. Open-loop: 0V or Duty cycle 0% represents the highest speed</li> <li>4. Closed loop: 0V or Duty cycle 0% represents the highest speed</li> </ul>
External Drive motor		Terminal: PH2, 0-SP VS-MD-3039T Driver board	<p>Description: Default welding potentiometer, power transfer (through potentiometer speed control)</p> <p>Customizable requirements: ON switch (effective to ground) SP 0-5V or 5V, 10-30K PWM speed regulation FR Turn forward and backward FB Speed Feedback</p>

