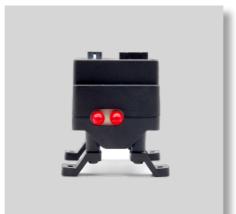
C09 Flow Control Micro Vacuum Pump



Datasheet





Highlights

- Low electromagnetic interference
- Optional digital flow control signal
- Low noise level and vibration
- Low flow pulsation
- Long service life

- Driven by Nidec BLDC motor
- Industrial-grade reliability
- Good air tightness
- Multiple self-protection
- Compact size

Applications

- Gas sampling
- Medical equipment
- Analytical instruments

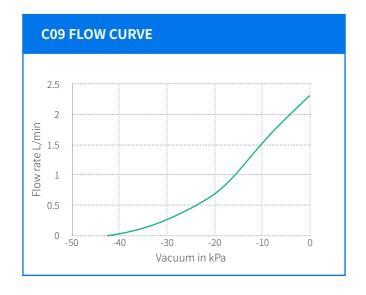
5.5K hours lifetime test

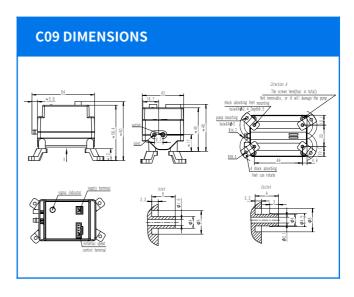


PERFORMANCE DATA							
Model	Version	Voltage (V DC)	Max. Load Current (mA)	Max. Average Flow rate (L/min)	Max. Peak Flow rate (L/min)	Max. Vacuum (-kPa)	
C09L	Premium	24	≤200	≥2.0	≥2.0	≥37	
	Standard	24	≤200	≥1.7	≥1.8	≥37	
	Simplified	24	≤200	≥1.3	≥1.5	≥37	

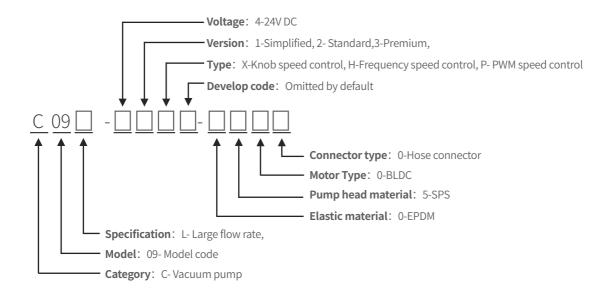
CONFIGRATION OPTIONS					
Material Options					
Pump Head	SPS				
Diaphragm	EPDM				
Valves	EPDM				
Motor	BLDC				
Connector Options					
	Default hose connector				
Function Options					
	Knob speed control	Frequency speed control	PWM speed control		

RELIABILITY DATA						
Models	C09L					
Versions	Simplified	Standard	Premium			
Unloaded Lifetime (hrs)	2000	4500	5500			
Motor Lifetime (hrs)	10000	15000	20000			
Test conditions	In a clean and non-corrosive laboratory, the pump is unloaded (the inlet and outlet directly connected to the atmosphere), and runs continuously around the clock; aml temperature: 5° C \sim 33 $^{\circ}$ C, relative humidity: 50%-85%, fluctuates with the climate		; ambient			
Working Condition						
Operating temperature	Permissible ambient temperature is 0°C \sim 50°C, it is not suitable to be exposed to the sun, and it should work in a clean and ventilated environment					
Medium	· ·	temperature of the medium is 5°C \sim 50°C, the transferring gas is allowed to be rich in water vapor, but cannot contain solid particles				
Wetted materials	SPS, EPDM tolerance to	alcohol, acid, alkali, etc. (ex lipids, benzene, gasolin		ted acid,		





C09 MODEL KEY



ACCE	SORRIES	
Descriptions	Illustration	Function
Shock-isolation mounting feet		Reduce the impact of vibration on the equipment during the operation of the pump. This accessory comes with the pump*4
Filter	%	The 80-mesh filter protect both pumps and other upstream instrumentation and hydraulic circuits against particulate, crystals and fibers . It is recommended to replace it regularly. This accessory comes with the pump*1
Check valve	~	Enhance the cut-off capability of the gas circuit system to ensure one-way gas flow. This accessory can be purchased on demand
Flow stabilizer	Hillinter	Eliminate and reduce pulsation, make gas output smooth and stable, this accessory can be purchased on demand
Manul control valve		It can be used to manually adjust the gas flow rate, pressure and vacuum. This accessory can be purchased on demand
Power Adapter	Automatical and a second and a	220V AC to DC switching power supply, this accessory can be purchased on demand
Silencer		It is used to eliminate and reduce the airflow noise caused by pumping operation, this accessory can be purchased on demand







To be a driving force in innovation of human fluid technology

Create value for customers by offering high quality fluid solutions

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