C30 Flow Control Micro Vacuum Pump



Datasheet





Highlights

- Low electromagnetic interference
- Optional corrosion-resistant material
- Long service life under max load
- Modular pneumatic connection options Multipl
- Low noise level and vibration
- Driven by BLDC motor
- Industrial-grade reliability
- Good air tightness
- ions Multiple self-protection
 - Compact size

Applications

 $12 K_{hours}$

lifetime test

- Gas sampling
- Medical equipment
- Analytical instruments
- Pneumatic automation

PERFORMANCE DATA						
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	
Material Option A	Diaphragm:EP	DM Valves:EP	DM Pump He	ad: Fiber reinforce	d PA6	
C30L	24V	≤300mA	≥6.0	≥4.1	≥48	
	12V	≪380mA	≥6.0	≥3.5	≥48	
C30M	24V	≤280mA	≥5.0	≥3.5	≥43	
	12V	≪350mA	≥5.0	≥3.0	≥43	
C30S	24V	≤250mA	≥5.0	≥3.3	≥41	
	12V	≪350mA	≥4.0	≥2.5	≥41	
Material Option B	Diaphragm:FK	M Valves:FKM	Pump Head:	Fiber reinforced P	46	
C30L	24	≪350mA	≥5.5	≥3.2	≥48	

CONFIGRATION	OPTIONS			
Material Options				
Pump Head	Fiber reinforce	1 PAG		
Diaphragm	EPDM	FKM		
Valves	EPDM	FKM		
Motor	BLDC			
Connector Options				
	Type A PA hose connector/Type B PP hose connector/Type C stainless steel hose connector PC6 push-in quick connector/PC8 push-in quick connector /Rc1/8 inside thread			
Function Options				
	Basic type	Knob speed control Frequency speed control Top configuration		

RELIABILITY DATA						
Models	C30S C30M C30L					
Versions	Simplified	Standard	Premium			
Fully Loaded Lifetime(hrs)	5000	8000	12000			
Unloaded Lifetime(hrs)	8000	12000	18000			
Motor Lifetime (hrs)	10000	15000	20000			
Working Condition	directly connected to the	nected to the atmosphere) o atmosphere), and runs con 3 °C, relative humidity: 50%-	tinuously around the clock	; ambie		
Operating temperature	Permissible ambient temperature is $0^{\circ}C\sim50^{\circ}C$, it is not suitable to be exposed to the su and it should work in a clean and ventilated environmen					
Medium	Permissible temperature of the medium is 5°C~50°C, the transferring gas is allowed to b rich in water vapor, but cannot contain solid particles					
Wetted materials	EPDM,FKM as optional; fiber reinforced nylon, tolerance to alcohol, acid, alkali, etc. (except strong acid, concentrated acid, lipids, benzene, gasoline, etc.)					

C30 MODEL KEY





C30S-24V FLOW CURVE











C30 BASIC TYPE DIMENSIONS



C30 KNOB/FREQUENCY SPEED CONTROL TYPE





Descriptions	Illustration	Function		
Shock-isolation mounting feet		Reduce the impact of vibration on the equipment during the operation of the pum 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 flor This accessory can be purchased on demand		
Flow stabilizer		Eliminate and reduce pulsation, make gas output smooth and stable, this accesso can be purchased on demand		
Nanul 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		220V AC to DC switching power supply, this accessory can be purchased on dema		
Silencer		It is used to eliminate and reduce the airflow noise caused by pumping operation this accessory can be purchased on demand		



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Create value for customers by offering high quality fluid solutions

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