# D27 Flow Control Micro Gas Pump



#### Datasheet





## Highlights

- No flow pulsation, smooth output
- High flow rate small volume
- Flow adjustable
- Low noise and vibration
- Multiple motor options

- Industrial-grade reliability
- Very compact size
- No flow pulsation

## **Applications**

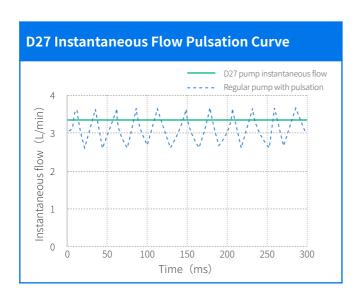
- Gas sampling
- Gas transmission
- Analytical instruments
- Portable device

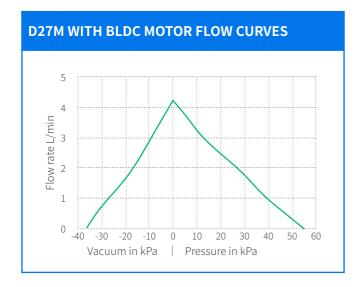
5K hours lifetime test

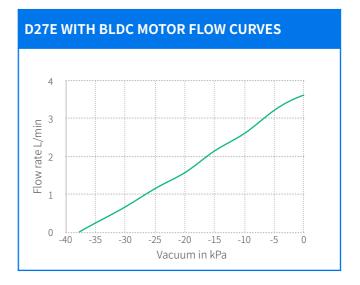
Model	Voltage (V DC)	Max. Load Current (mA)	Max. Peak Flow rate (L/min)	Max. Average Flow rate (L/min)	Max. Vacuum (-kPa)	Max. Pressure (kPa)
Material Option	Diaphragm:E	PDM Valves:EPDM	Pump Head: Fibe	r reinforced PA6 and I	PP	
D27E	24V	≤200mA	≥3.7	≥3.7	≥35	/
D27E	12V	≤300mA	≥3.7	≥3.7	≥35	/
Material Option	Diaphragm:E	PDM Valves:Silicon	rubber Pump Hea	ad: Fiber reinforced P	A6	
D27M	24V	≤300mA	≥4.0	≥4.0	≥35	≥55
D27M	12V	≤150mA	≥4.0	≥4.0	≥35	≥55

CONFIGRUATION OPTIONS		
Material Options	D27E	D27M
Pump Head	PA6 and PP	PA6
Diaphragm	EPDM	EPDM
Seals	EPDM	Silicon rubber
Motor	BLDC	BLDC
Connector Options		
	Default hose conne	ector

Models	D27M equipped with BLDC motor	D27E equipped with BLDC motor Standard	
Versions	Simplified		
Fully Loaded Lifetime(hrs)	testing	5000	
Unloaded Lifetime (hrs)	5000	8000	
Motor Lifetime (hrs)	8000	10000	
Test conditions	outlet is directly connected to the atn	the pump is fully loaded (the inlet is blocke	
Working Condition	directly connected to the atmosphere),	and runs continuously around the clock; ar midity: 50%-85%, fluctuates with the climat	
Working Condition Operating temperature	directly connected to the atmosphere), temperature: 5°C~33°C, relative hu	and runs continuously around the clock; am	
	directly connected to the atmosphere), temperature: 5°C~33°C, relative hu  Permissible ambient temperature is 0°C and it should work in a  Permissible temperature of the medium	and runs continuously around the clock; am midity: 50%-85%, fluctuates with the climat $\sim$ 50°C, it is not suitable to be exposed to th	

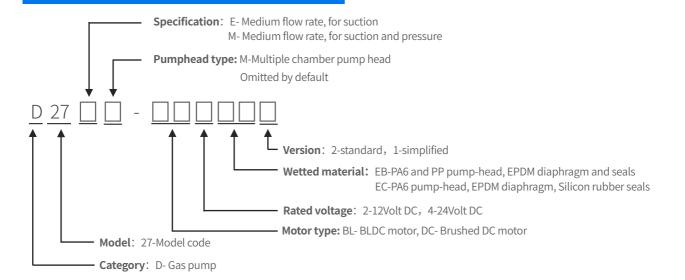


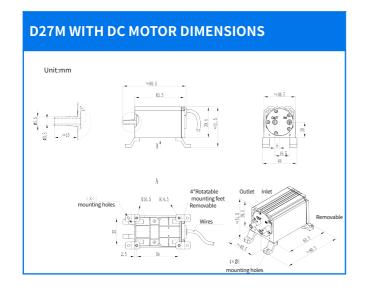


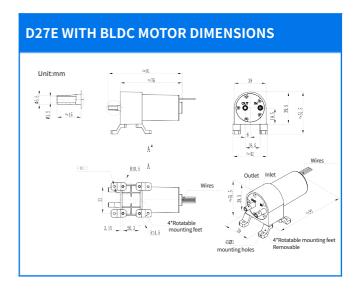


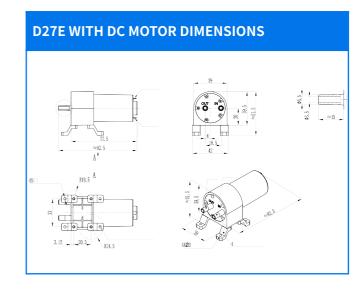
LIST OF ORDERABLE MODELS	
Model	Description
D27E-BL2EB2	For medium flow vacuuming, equipped with 12V brushless motor, the quality version is the standard version
D27E-BL4EB2	For medium flow vacuuming, equipped with 24V brushless motor, the quality version is the standard version
D27M-BL2EC1	For medium flow vacuuming and pressure, equipped with 12V brushless motor, the quality version is the simplified version
D27M-BL4EC1	For medium flow vacuuming and pressure, equipped with 24V brushless motor, the quality version is the simplified version
	For more other configurations, materials and quality options, please contact our company

#### **D27E MODEL KEY**









ACCE	ESSORIES	
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	<b>%</b>	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		Eliminate and reduce pulsation, make gas output smooth and stable, this accessory can be purchased on demand
Manual control valve		It can be used to manually adjust the gas flow rate, pressure and vacuum. This accessory can be purchased on demand
DC power adapter	mental management of the control of	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







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Create value for customers by offering high quality fluid solutions

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