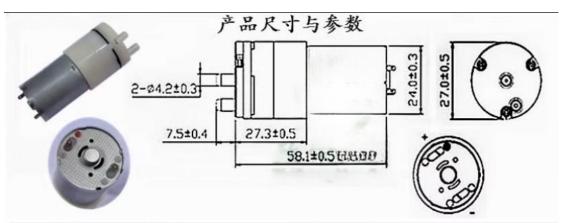
产品概述

微型气泵是指体积小巧,工作介质为气态,主用途分为: 微型负压泵,微型真空泵,微型气体 循环泵, 腕式电子血压计气泵, 微型气泵, 微型气体采样泵, 微型打气泵, 微型抽气泵, 微型抽 气打气两用泵等。按工作原理分为: 隔膜式、电磁式、叶轮式、活塞式等。

微型隔膜泵基本原理: 电机的圆周运动,通过机械装置使泵内部的隔膜做往复式运动,从而对 固定容积的泵腔内的空气进行压缩、拉伸形成真空(负压),在泵抽气口处与外界大气压产生 压力差,在压力差的作用下,将气体压(吸)入泵腔,再从排气口排出。

应用范围:因为真空泵不会污染工作介质,而且具有体积小巧、噪音低、免维护,可以连续 24小时运转等优点,所以微型气泵被作为动力装置,广泛用于气体采样、气体循环加速过滤、 汽车真空助力、科研、仪器仪表、化工分析、医疗保健、医药卫生、生物工程,自动控制、 环保、水处理、环保等领域得到了广泛的应用。致荣华冠微型气泵具有稳定可靠的性能,使用 寿命长,符合国家环保要求的低能耗。



額定电压(Rated Voltage)	DC4. 5V	DC6. 0V	DC12. 0V	DC24. 0V		
电压范围(Voltage Range)	DC4. 05V-4. 95V	DC4. 8V-7. 2V	DC10. 8V-13. 2V	DC21. 6V-26. 4V		
负载电流 (Load current)	<500mA	<420mA	<280mA	<120mA		
功率 (Power)	<219	<219	<2W	<2W		
压力范围 (Pressure Range)	-450mmHg ~ 900mmHg (-60 Kpa ~ 120Kpa)					
流量 (Flow)	>2. 8LPII					
噪音(Noise)	泵体下垫 5cm 厚的海绵,放置在噪音仪 30cm 位置,額定電壓下充气压力从(到 420mmHg 所测得的值小于 60dB。(Pump body underlay is 5 cm thick sponge, placed on the noise meter 30 cm, Rated voltage under inflation pressure from 0 to 420mmHg the measured value is less than 60dB)					
寿命 (Life)	气泵开 10 秒.停 5 秒为一个周期测试 30,000 次,测试在 15%的衰减范围内。 (pumping 10 seconds, on 5 seconds for a cycle, test for 30,000 cycles, the under performance range is within 15%.)					
工作介质(Working Fluid)	空气(Air)					
使用温度(Operating Temperature Range)	0° C-55° C					
产品净重 (Product net weight)	60g					

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常见客户问题

型号: ZR370-03PM 功率: 3~4W 电机: 有刷电机 DC直流电压

1. 关于同型号气泵各种电压有什么区别? 产品电压越大,电流越小,耗电量随之就少 电压的大小与压力无关,与流量有关,电 压越大,流量随之就大。产品型号相同, 电压不同,产品外观尺寸相同,功能相同。 2. 关于气泵使用寿命。

气泵如果24小时连续不停的运转,使用寿命是400~500H,如果气泵不是连续运转,间断使用,气泵寿命有所延长。

3. 关于使用什么电源的问题。 本型号产品使用的是DC直流电压. 所以您需要正确选择匹配产品电压的直流电源,如: 电池、充电宝、电瓶等直流电压电源如果您需要使用220V家用电,您需要选择匹配的电源适配器进行转换才能使用。



注意:本型号产品是充气抽气两用泵, 电机的正反转, 进出气口固定不变。

产品规格书

(PRODUCT SPECIFICATION)

1. 适用范围 (Application):

本规格书适用于微型气泵 ZR370-03PM DC4.5V DC 6.0V DC12.0V DC:24.0V之用。(The specifications apply ZR370-03PM DC4.5V DC 6.0V DC12.0V DC:24.0V use。)

2. 測試條件 (Test condition):

2-1 測試環境溫度濕度: 周圍溫度20°C, 相對濕度65%RH 為標準。如無爭議發生可以在下述環境測試: 周圍溫度5-45°C, 相對濕度30-80%RH (The standard of environment test is the ambient temperature of 20°C and relative humidity of 65%RH. If no disputes omlur, the test can be conducted under the below circumstance: the ambient temperature of 5-45°C and relative humidity of 30~80% RH.)

2-2 測試姿勢 (position):水平 (Horizontal)

2-3 負荷(Load):空氣正压900mmHg (air Positi<mark>ve pressure</mark> 900mmHg) 空氣负压450mmHg (Air Negative pressure ≥450mmHg)

3.性能(Function):

3-1 額定電壓(Rated voltage)	DC4. 5V	DC 6. 0V	DC 12.0V	DC24V	
3-2 使用電壓: (Operating voltage	DC4. 05V-4. 95V	DC4. 8V-7. 2V	DC10. 8V-13. 2V	DC21.6V-26.4V	
	<500mA	<420mA	<280mA	<120mA	
3-3 负载電流: (Load current)	在500ml容器中使用額定電壓供应气泵吸气到最高压力电流小于负载電流。In a 500ml container, the highest current is less than Load current while the air pump is powered with Rated voltage.				

3-4 噪音(Noise):泵体下垫5cm厚的海绵,放置在噪音仪30cm位置,額定電壓下充气压力从0到420mmHg所测得的值小于60dB。(Pump body underlay is 5 cm thick sponge, placed on the noise meter 30 cm, Rated voltage under inflation pressure from 0 to 420mmHg the measured value is less than 60dB)

3-5 流量 (Flow) : ≥2.8LPM

- 3-6 最大壓力 (Maximum pressure): 在使用額定電壓使充氣壓力從0到停止升壓之最高壓力值 (正压≥900mmHg 负压≥450mmHg)。In Rated voltage voltage causes inflation pressure from 0 to stop the booster of the highest pressure value is (Positive pressure ≥900mmHg Negative pressure ≥450mmHg)
- 3-7 使用温度範圍(Operation temperature range): 在温度 5℃到50℃及濕度30%RH 到80%RH 之間氣泵運作良好。(The temperature have to be between 5℃ and 50℃ and humidity must is between 30% and 80%RH to function the pump well.)
- 3-8 保存温度範圍(Preservation temperature range):在温度-20℃到60℃及濕度30%RH 到85%RH 之間氣泵保持在良好的狀態。(The temperature has to be between negative 20℃and positive 60℃ and humidity has to be between 30%and 85% RH to keep the pump in a good condition.)

4. 可靠性試驗 (Reliability test):

- 4-1 低温特性 (Low-temperature characteristic):放置在-20℃經72小時後,再取出置於常温(20℃±5℃)中2小時按3-3 3-4 3-5 3-6 測試無異常。 (Putting the pump in the temperature at negative 20℃ for 72 hours; then taking it out and putting it in a room temperature at 20℃±5℃ for two hours. Under this circumstance, running through test 3-3 3-4 3-5 3-6 and finding out that the pump still performs well.)
- 4-2 高温特性 (High-temperature characteristic):在60℃經72小時放置後,再取出置於常温 (20℃±5℃)中2小時按3-3 3-4 3-5 3-6測試無異常。 (Putting the pump in the temperature at 60℃ for 72 hours; then taking it out and putting it in a room temperature at 20℃±5℃ for two hours. Under this circumstance, running through test 3-3 3-4 3-5 3-6 and finding out that the pump still performs well.)
- 4-3 高温高温(High-temperature & High humidity):在温度60℃, 濕度80~85%環境中72小時取出置於常温(20℃±5℃)中2小時按3-3 3-4 3-5 3-6 測試無異常。(Putting the pump in the temperature at 60 ℃ and the 20℃±5℃ for two hours. Under this circumstance, running through test 3-3 3-4 3-5 3-6 and finding out that the pump still performs well.)
- 4-4 低温環境測試(Low- temperature environment test):在5℃經5小時後在此温度下測試無異狀。
 (Measuring after 5 hours neglect and there are no abnormalities a deed following test in 5 ℃.)
- 4-5 高温環境測試 (High- temperature environment test):在50℃經5小時後在此温度下測試無異狀。 (Measuring after 5 hours neglect and there are no abnormalities a deed following test in 50℃.)
- 4-6 寿命试验(Life test): 在100ml容器中,开10秒,停5秒为一个周期测试30,000后按3-3 3-4 3-5 3-6的 测试要求在15%的衰减范围内。In 100ml tank pumping 10 seconds , on 5 seconds for a cycle, test for 30,000 cycles , and the tested by point 3-3 3-4 3-5 3-6, the under performance range is within 15%

5.其他 (Others)

- 5-1 跌落試驗(Fall test):使用標準的包裝方式,在水泥地面上將其從50CM 的高度分別從正面、側面、邊角自由落下其性能及結構無異常。 (Fall test: pasic performance and the structure shall not be defected after following test: With a standard packaging conditions, the dropping it at the front, side, and edges part from 50cm height to the concrete floor.)
- 5-2 異常試驗 (Unusual test) :用額定電壓連續通電8 小時無燃燒、冒煙現象。 (There is no burning and smoking omlurrence while the power is on with Rated voltage for 8 hours continuously.)
- 5-3 馬達端子 (Motor Terminal):以0.3 公斤砝碼與端子負載無異常。端子須在380℃烙鐵溫度下焊接,要求在28內操作完成。 (No abnormality omlurs when a 0.5Kg static is hanging in the parallel direction of the Terminals. The terminals must be 380 ℃ temperature soldering iron, the requirements to complete the operation in 2 seconds.
- 5-4 外觀 (Appearance) :產品不能有破損,脏污。 (The appearances of the valve shall not contain cracks and impurities)