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产品规格书 Specifications

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东莞市璟博方精密电子有限公司

Dongguan Jing Bofang Precision Electronics Co., Ltd

气泵规格书

Specification of air pump

品	名:	直流气泵		-	
Part name: Dc air pump			np		
型	号:	JFB130-3.	7A-02		
Mode	1			-	
日	期:	2021-8-21			
Date					
页	数:	共7页(包括封面)		
Numb	er of	pages: Se	ven pages	-	
1	作成/I	Made	审核/A	Audit	核准/Approval
1			审核/A	Audit	核准/Approval
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客户流	李建		审核/A	Audit	核准/Approval
客户方	李建 季认			Audit	核准/Approval
客户方	李建 季认	生修		Audit	核准/Approval
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1. 适用范围 Application:

本规格书适用 JFB130-3.7A-02 之用.

The specifications apply JFB130-3.7A-02 use $_{\circ}$

2. 测试环境 Standard test environment:

2-1	测试环境温度	周围温度 20℃相对湿度 65%RH 为标准,如无争议发生可以在下		
	Environment test	述环境测试: 周围温度 5-30℃相对湿度 40-85%RH。		
		The standard of environment test is the ambient temperature of 20 °C		
		and relative humidity of 65%RH. If no disputes occur, the test can be		
		conducted under the blow circumstance: the ambient temperature of		
		5~30°C and relative humidity of 40~85%RH.		
2-2	测試姿势(Position)	水平(Horizontal)		
2-3	额定负载(Load)	空气压-40kPa(Air pressure -40kPa)		
2-4	使用温度范围	0~50° C(Humidity to 30% to 85%RH)		
	Operation temperature range			
2-5	保存温度范围 Preservation	-20 ~60° C(Humidity to 30% to 85%RH)		
	temperature range			

3 电气特性 Electrical characteristics:

3-1	额定电压 Rated voltage	DC3.7V		
3-2	使用电压范围	DC3.2V~4.5V		
	Operating voltage range:			
3-3	额定电流 Rated current	供电 DC3.7V, 气泵吸气压力從 0 到-40KPa	<400mA	
		(100CC 气缸)时的最高电流小于 400mA	Less than	
		The highest current is less than 400mA while	400mA	
		pressurizing with DC3.7V in a 100CC tank from 0		
		to -30KPa.		
3-4	空载流量 No load Flow	在 DC3.7V,空载流量大于等于 0.8 升/分钟.	≥0.8L/min	
		At DC3.7V, the air flow is great than or equal to	Great than	or
		0.8L/min with no load.	equal	to
			0.8L/min	

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	3-5	噪音 Noise	下垫 5cm 之海綿, 距噪音计 30cm 之处, 依	57dB	
			DC3.7V 之电源气泵空载运行所测得之噪音值		
			约为 57dB.		
			The noise value of the 5cm sponge and 30cm		
			away from the noise meter is about 57db when the		
			DC3.7 v power pump is running without load.		
	3-6	最大真空度	输入DC3.7V之电压在吸气压力从0到停止减压	<-57 kP	a
		Maximum vacuums	之最高真空值小于-57kPa	Less t	han
			The maximum vacuums value shall be less than	-57 kPa	a
			-57kPa while pressurizing with DC3.7V from 0 till		
			dead-head vacuums value.		

在经过以下 4-1 至 4-5 和 5-1、5-2 项目测试后, 产品须可满足项目 3-3, 3-4, 3-6 之基本性能。但是噪音<69dB 即为合格。

After the pump has been tested through test 4-1 to 4-5 and 5-1, 5-2, it must be suitable the basic performance required by item 3-3, 3-4, 3-6. However, it to be OK that the dropped pressure value noise level shall be less then 69dB.

4 环境试验 Environmental Tests:

4-1	低温放置试验	放置在-20℃经 72 小时后,再取出置于常温(20±5℃)中 2 小
	Low-temperature characteristic	时依下列专案测试无异状 3-3, 3-4, 3-6.
		Putting the pump in the temperature at negative 20 °C for 72
		hours; then taking it out and putting it in a room temperature at $20\pm$
		5°C for 2 hours, Under this circumstance, running through test3-3,
		3-4,3-6.and finding out that the pump still performs well.
4-2	高温放置试验	在 50℃经 72 小时放置后,在放常温(20±5℃)中 2 小时依下列专
	High-temperature	案测试无异状 3-3,3-4,3-6.
	characteristic	Putting the pump in the temperature at 50°C for 72 hours; then taking
		it out and putting it in a room temperature at $20 \pm 5 ^{\circ}\text{C}$ for 2 hours,
		Under this circumstance, running through test 3-3,3-4,3-6.and finding
		out that the pump still performs well.

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	4-3	高温高湿放置试验			在温度 50℃,湿度 95%环境中	经 72 小时取出置于常温(20±
		High-temperature	&	High	5℃)中2小时依下列专案测试无异	状 3-3,3-4,3-6.
		humidity			Putting the pump in the tempera	ture at 60°C and the humidity at
					95% for 72 hours; then taking it	out and putting it in a room
					temperature at $20 \pm 5 ^{\circ}\text{C}$ for 2	hours. Under this circumstance,
					running through test3-3,3-4,3-6. and	I finding out that the pump still
					performs well.	

4-4 温湿度循环放置测试 Temperature & humidity cycle test

在经过12次的温湿度循环测试后:-20℃*2Hr → +25℃*1Hr →+60°C 85%RH* 2Hr →+25°C*1Hr,需维持相同的性能.依下列 专案测试无异状 3-3,3-4,3-6.

After doing the temperature and humidity cycle test,-20°C * 2Hr → +25 °C * 1Hr → +60 °C 85%RH* 2Hr → +25 °C *1Hr,for twelve times, the pump shall still perform the same functions proved by running through test 3-3,3-4,3-6.

寿命试验 4-5 Life test

在 100CC 容器中, 吸气 2 秒, 停 2 秒,测试 100,000 次以后经 下列专案测试无异状 3-3,3-4,3-6.

In a 100CC container, breathe in for 2 seconds, stop for 2 seconds, test 100,000 times after the following special test no abnormal 3-3,3-4,3-6.

5 特殊环境测试 Thermal test performance:

5-1	低温环境测试	在温度0℃经五小时后,立即在此温度下依下列专案测试无异
	Low-temperature environment	状,3-3,3-4,3-6.
	test	Under a temperature of 0 °C for 5 hours, then examining the
		pump by test 3-3,3-4,3-6.and finding out it still perform well.
5-2	高温环境测试	在温度 50℃经五小时后,立即在此温度下依下列专案测试无
	High-temperature environment	异状,3-3,3-4,3-6.
	test	Under a temperature of 50 °C for 5 hours, then examining the
		pump by test 3-3,3-4,3-6. and finding out it still perform well.

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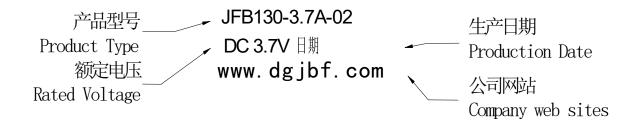
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6 其它 Others:

6-1	端子强度	以 0.5 公斤法码与端子平行负载无异常者.
	The lead tension	Hanging a 0.5 Kg static load on the terminal of the pump will
		not cause damage on the pump.
6-2		使用标准的包装方式,在水泥地上将其从 50cm 的高度分别从
	Fall test	正面,侧面,及边角落下,其性能及结构需无异常.
		Basic performance and the cement shall not be defected after
		following test; With a standard packaging condition, then dropping it
		at the front side, and edges part from the height of 50 cm to the
		concrete floor.
6-3	外观 Appearance	产品无不适当的外观和刮伤, 脏污…等.
		The appearances of the pump shall not contain cracks and
		impurities.
6-4	异常试验 Unusual test	以 DC4.5 住出气孔,全负载连续 8 小时通电无燃烧,发烟现象.
		There is no burning and smoking occurrence while the power is
		on with DC 4.5ull load, for 8 hours continuously.
6-5	焊锡要求	马达端子焊锡作业需在焊锡温度 380℃下,2 秒内操作完成.
		Motor terminal for Soldering process the heat temp. is controlled
		by 380°C, and operating time is for 2sec only.

7 喷码内容 Labels:



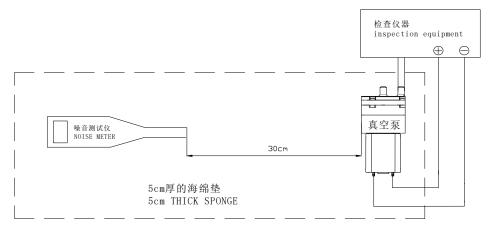
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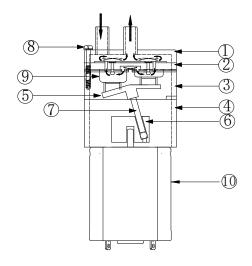
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8 噪音测试线路图 Noise test circuit diagram:



9 结构图 Structural drawing:



10 材料表 Material

号码NO.	名称NAME.	材料MATERIAL.
1	塑胶B1	PLASTIC
2	塑胶B2	PLASTIC
3	塑胶B3	PLASTIC
4	塑胶B4	PLASTIC
5	塑胶B5	PLASTIC
6	塑胶B6	PLASTIC
7	钢针	STEEL
8	螺钉	А3
9	橡胶	RUBBER
10	马达	DC MOTOR

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11.成品外形图 Finished Outline

