



MERCURY INDUSTRY CO LIMITED

气泵规格书

Specification of air pump

客 户: _____

Customer

品 名: **DC VACUUM PUMP**

Part name

型 号: AP520B-120

Model

日 期: **2022-09-30**

Date

页 数: 共 7 页 (包括封面)

Number of pages: 7

作 成	审 核	核 准

客户承认

Customer acknowledgment

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版本号 Version number: A1

1. 适用范围 Application:

本规格书适用于雾化泵 AP520B 之用.

The specifications apply AP520B use.

2. 测试条件 Test condition

2-1	测试环境温度湿度 Environment test	周围温度 20℃，相对湿度 65%RH 为标准，如无争议发生可以在下述环境测试：周围温度 5-55℃相对湿度 30-80%RH。 The standard of environment test is the ambient temperature of 20℃ and relative humidity of 65%RH. If no disputes occur,the test can be conducted under the blow circumstance: the ambient temperature of 5~55℃ and relative humidity of 30~80%RH.
2-2	测试姿势 (Position)	水平 (Horizontal)
2-3	额定负载 (Load)	空气压-60KPa (Air pressure -60KPa)
2-4	工作温度范围 Operation temperature range	0 ~55° C(Humidity to 30% to 85%RH)
2-5	保存温度范围 Preservation temperature range	-30 ~60° C(Humidity to 10% to 90%RH)

3 性能 Function

3-1	额定电压 Rated voltage	DC12.0V	
3-2	使用电压范围 Operatingvoltage range	DC9. 6V~14. 4V	
3-3	空载电流 No load current	供电 DC12.0V，气泵空载工作时的最高电流 < 500 mA The highest current is less than 500mA while the pump no load.	≤500mA Less than 500mA
3-4	空载流量 NO-load air flow	气泵输入 DC12V，空载时的流量 ≥5.0 LPM Pump input DC12V no load, the flow more than 5.0 LPM.	≥5.0 L/MIN More than 5.0 L/MIN
3-5	噪音 Noise	将气泵之下垫 5cm 之海绵，距噪音计 50cm 之处，依电压 DC12V 充气压力从 0 到最大压力所测得之 dB 值。(Fronts sponge of the 5cm the air	≤60dB Less than 60dB

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		pump, is apart from place of the noise meter 50cm, from obtains the dB value according to the voltage DC12V inflation pressure 0 to max)	
3-6	最大真空度 Maximum vocuum	输入 DC12V 之电压吸气压力从 0 到停止减压之最高真空值小于-58KPa. The maximum vocuum value shall be Less than -58KPa while pressurizing with DC 12V tank from 0 till dead-head vocuum value.	<-58kpa) Less than -58kpa
3-7	再启动电压 Restart voltage	使用电压范围内，充气升压到 40KPa 时暂停，能在输入 9.6V 之电压可再次使气泵启动。 Operating voltage range gas filled pressure until 40KPa pause, And then add DC 9.6V voltage pump should restart.	≤DC9. 6V

4 保证性能 Guarantees the performance:

4-1	低温放置试验 Low-temperature characteristic	放置在-20℃经 72 小时后，再取出置于常温(20±5℃)中 2 小时依下列专案测试无异状 3-3, 3-4, 3-5, 3-6, 3-7. 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 2 hours,Under this circumstance,running through test 3-3, 3-4, 3-5, 3-6,3-7 and finding out that the pump still performs well.
4-2	高温放置试验 High-temperature characteristic	在 60℃经 72 小时放置后，在放常温(20±5℃)中 2 小时依下列专案测试无异状 3-3, 3-4,3-5,3-6,3-7 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 2 hours,Under this circumstance,running through test 3-2,3-3, 3-4, 3-5, 3-6,3-7 and finding out that the pump still performs well.
4-3	高温高湿放置试验 High-temperature & High humidity	在温度 60℃,湿度 95%环境中经 72 小时取出置于常温(20±5℃)中 2 小时依下列专案测试无异状 3-3, 3-4, 3-5, 3-6,3-7. Putting the pump in the temperature at 60℃ and the humidity at 95% for 72 hours;then taking it out and putting it in a room temperature at 20 ± 5℃ for 2 hours.Under this circumstance,running through test 3-3, 3-4, 3-5, 3-6,3-7 and finding

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		out that the pump still performs well.
4-4	温湿度循环放置测试 Temperature & humidity cycle test	在经过温湿度循环测试后:-20℃* 24Hr → +60℃,95%RH* 24Hr →+20℃*2Hr,需维持相同的性能.依下列专案测试无异状 3-3, 3-4, 3-5, 3-6,3-7.After doing the temperature and humidity cycle test, -20℃* 24Hr → +60℃,95%RH* 24Hr →+20℃*2Hr,for one time,the pump shall still perform the same functions proved by running through test 3-3, 3-4, 3-5, 3-6,3-7.
4-5	寿命试验 Life test	在 500CC 容器中, 充气 10 秒, 排气 2 秒为一个循环, 测试 500 小时以后经下列专案测试无异状 3-3, 3-4, 3-5, 3-6, 3-7. In a 500CC tank, pressurizing for 10 seconds, stopping for 2 seconds, is as one cycle, Doing it for 500 hours, then examine the pump by test 3-3, 3-4, 3-5, 3-6,3-7,and figure out than the pump is still in a good function.

5 特殊环境测试 Thermal test performance:

在经过发下 5-1 和 5-2 项目之特殊环境测试后, 要产品须可满足项目 3-3 至 3-7 之基本性能。

After the pump has been tested through test 5-1 and 5-2, it must be suitable the basic performance required by item 3-3 to 3-8.

5-1	低温环境测试 Low-temperature environment test	在温度 0℃ 经五小时后,在此温度下依下列专案测试无异状, 3-3, 3-4, 3-5, 3-6,3-7. Under a temperature of 0℃ for 5 hours, then examining the pump by test 3-3, 3-4, 3-5, 3-6,3-7 and finding out it still perform well.
5-2	高温环境测试 High-temperature environment test	在温度 50℃ 经五小时后,在此温度下依下列专案测试无异状, 3-3, 3-4, 3-5, 3-6,3-7. Under a temperature of 50℃ for 5 hours, then examining the pump by test 3-3, 3-4, 3-5, 3-6,3-7 and finding out it still perform well.

6 其它 Others:

6-1	端子强度 The lead tension	以 2.0 公斤法码与端子平行负载无异常者。 Hanging a 2.0 Kg static load on the terminal of the pump will not cause a damage on the pump.
6-2	落下实验 Fall test	使用标准的包装方式,在水泥地上将其从 50cm 的高度分别从正面,侧面,及边角自由落下,其性能及结构需无异常。 Basic performance and the struture shall not be defected after following test;With a standard packaging conditions,then dropping it

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		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 DC12V 连续 1 小时通电无燃烧,发烟现象. There is no burning and smoking occurrence while the power is on with DC12V for one hours continuously.

7 标签内容 Labels:

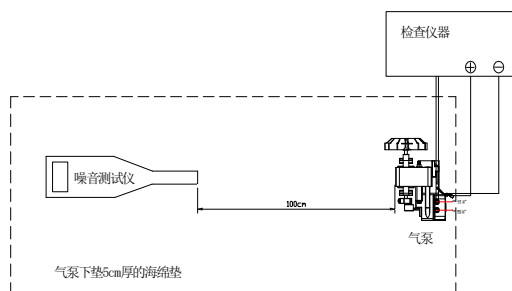
依客户要求

8 允收标准 Acceptable standard:

依据 GB/T2828.1-2003

Acceptable standard is according to the GB/T2828.1-2003 (LOT SIZE S-3)

9 噪音测试线路图 Noise test circuit diagram:



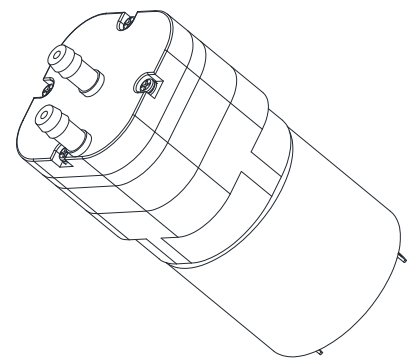
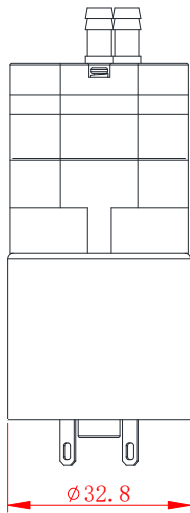
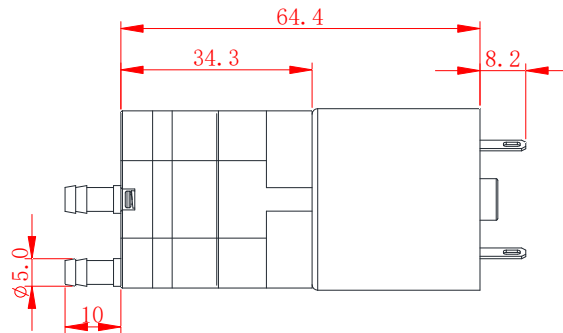
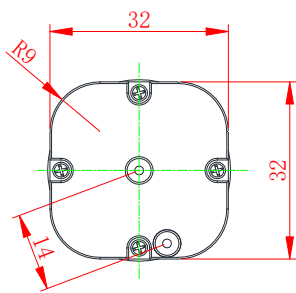
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10.成品外形图 Finished Outline



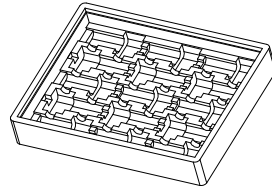
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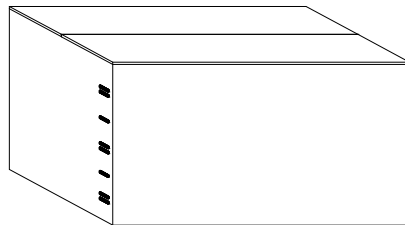
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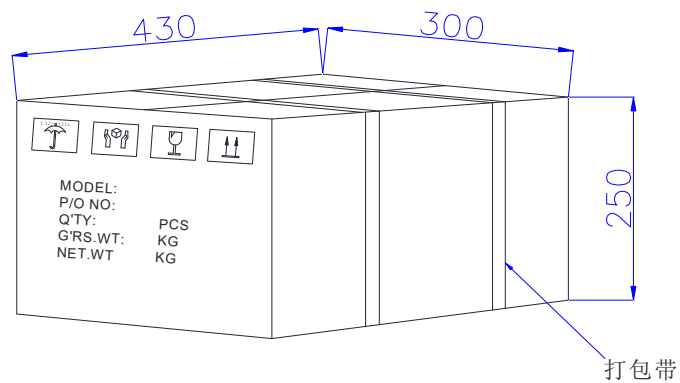
11. 包装图 Packaging



一盒35个



每箱6层 共210个



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