

# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

## 樣品承認書

### Samples Specification Approval Authorization

客 戶

Customer

認 可 編 號

Approval No.

客 戶 料 號

Customer P/N

产 品 名 称

无刷真空泵

Product Name

產 品 類 型

VN-C4-24V (无刷)

Model No.

日 期

2022-6-28

Date

版 本

1.0

Version

客戶承認用印欄

Customer Approved Signatures

Approved	Checked	Evaluated

Please Return One Copy With Your Approved Signatures

Add:江苏省昆山市东昌路 269 号

TEl:0512-88820290/13641916756

Fax:0512-57780862

# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

## 1.適用範圍 Application:

本規格書適用於微型泵 VN-C4-24V 之用。

This specification is applicable to Micro air Pump VN-C4-24V .

## 2.測試條件 Test condition:

2-1 測試環境溫度濕度：周圍溫度 20℃，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℃，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 occur, the test can be conducted under the blow circumstance:the ambient temperature of 5-45 °C and relative humidity of 30~80% RH。

2-2 測試姿勢 position:

水準 Horizontal

2-3 負荷 Load:

空氣 air

## 3.性能 Function:

3-1 額定電壓 Rated voltage:DC24V

3-2 使用電壓 Operating voltage : DC22V-DC25V

3-3 電流 Current

Current with load: <4A

在 DC24V 電壓氣泵抽氣壓力從 0 到-80Kpa 的最高電流。

During pumping from 0 to -80Kpa DC24V voltage。

3-4 噪音 Noise:Less than 70dB(FIG 1)

將泵體之下墊 5cm 厚的海綿，放置在距離噪音儀 30cm 位置，DC24V 電壓下抽氣壓力從 0 至-80Kpa 所測得的 dB 值。

Put a sponge of 5cm under the pump and distance to noise meter from 30cm.

and while pressurizing from 0 to -80Kpa to test noise value at 24V voltage(FIG1)

3-5 流量 Free Flow ≥35LPM

3-6 充氣壓力 Charged pressure : >300Kpa

在 DC24V 電壓使充氣壓力從 0 到停止升壓之最高壓力值。

The pressurization value is while the pump stop the inflation at DC24V voltage

3-7 真空度 Vacuum: ≤-80Kpa

# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

## 3-8 使用溫度範圍 Operation temperature range:

在溫度 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 °C and 50 °C and humidity must is between 30%and 80%RH to function the pump well.

## 3-9 保存溫度範圍 Preservation temperature range:

在溫度-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 °C and positive 60 °C 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 低溫特性 Low-temperature characteristic:

放置在-20℃經 48 小時後,再取出置於常溫(20℃±5℃)中 2 小時按 3.3 3.4 3.5 3.6 3.7 測試無異常。

Putting the pump in the temperature at negative 20 °C for 48 hours; then taking it out and putting it in a room temperature at 20 °C ± 5 °C for two 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 高溫特性 High-temperature characteristic:

在 60℃ 經 48 小時放置後,再取出置於常溫(20℃±5℃)中 2 小時按 3.3 3.4 3.5 3.6 3.7 測試無異常。

Putting the pump in the temperature at 60 °C for 48 hours; then taking it out and putting it in a room temperature at 20 °C ± 5 °C for two 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.

### 4-3 高溫高濕 High-temperature & High humidity:

在溫度 60℃, 濕度 80~85% 環境中 48 小時取出置於常溫 (20℃±5℃) 中 2 小時按 3.3 3.4 3.5 3.6 3.7 測試無異常。

Putting the pump in the temperature at 60 °C and the humidity between 80~85% for 48 hours; then taking it out and putting it in a room temperature at 20 °C ± 5 °C for two 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.

# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

## 4-4 壽命試驗 Life test:

在 500CC 容器中，抽氣 30 分鐘，停 30 分鐘為一迴圈，測試大於 1,4000 次以後按 3.3 3.4 3.5 3.6 3.7 測試無異常。

In a 500CC tank, pressurizing for 30 minutes and stopping for 30 minutes is as one

cycle. Doing it for more than 1,4000 times then examine the pump by test 3.3 3.4 3.5 3.6 3.7 and figure out that the pump is still in a good function.

## 4-5 低溫環境測試 Low— temperature environment test:

在 5°C 經 5 小時後 在此溫度下測試無異狀。

Measuring after 5 hours neglect and there are no abnormalities a deed following test in 5°C.

## 4-6 高溫環境測試 High— temperature environment test:

在 50°C 經 4 小時後 在此溫度下測試無異狀。

Measuring after 4 hours neglect and there are no abnormalities a deed following test

in 50°C.

## 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。

Basic performance and the structure shall not be defected ater 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 DC24V 連續通電 4 小時無燃燒、冒煙現象。

There is no burning and smoking occurrence while the power is on with DC24V for 4 hours continuously.

### 5-3 馬達端子 Motor Terminal:

以 0.5 公斤砝碼與端子負載無異常。端子須在 380°C 烙鐵溫度下焊接，要求在 2S 內操作完成

No abnormality occurs when a 0.5Kg static is hanging in the parallel direction of the .Terminals .The terminals must be 380 °C temperature soldering iron, the requirements to complete the operation in 2 seconds.

# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

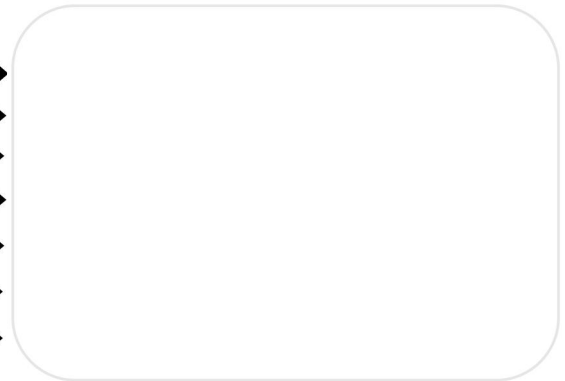
## 5-4 外觀 Appearance:

產品不能有破損，臟汙。

The appearances of the valve shall not contain cracks and impurities, which will decrease the value of the goods.

## 5-5 標籤 Marking label:

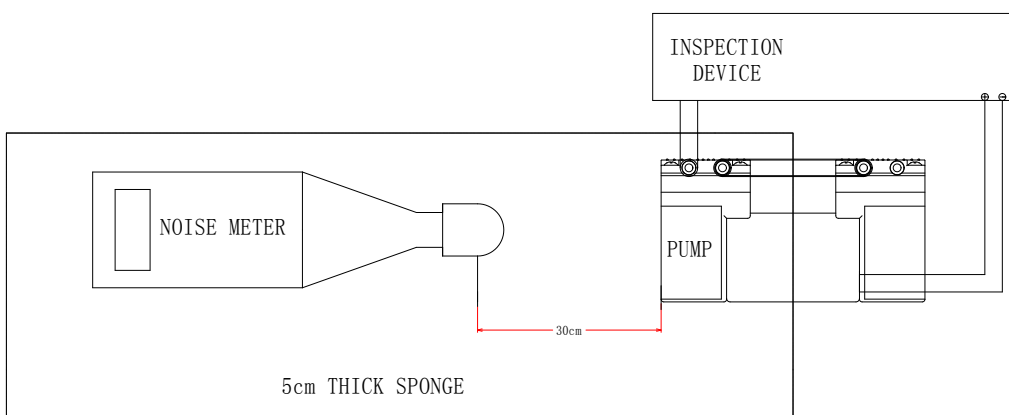
公司名称 Corporate name  
产品名称 Product name  
产品型号 Product model  
工作流量 Work flow  
联系电话 Contact number  
日期 Date  
网址 URL



6.如對此份規格書有任何須修改、增加、或刪除的意見，需經過客戶及佑誠公司雙方面的協商。

In case any modifications, addition or elimination on this specifications are necessary, Decisions shall be made through the negotiations between our customer and YOUCHENG Electronic co.,LTD.

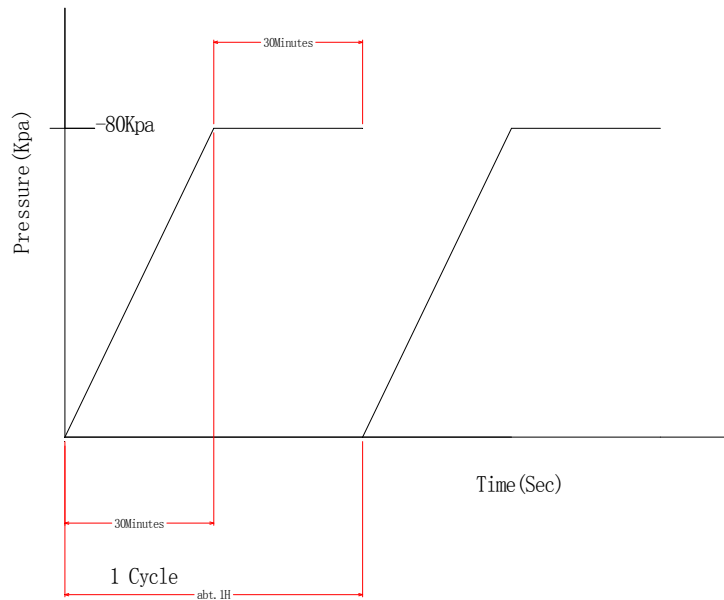
FIG 1



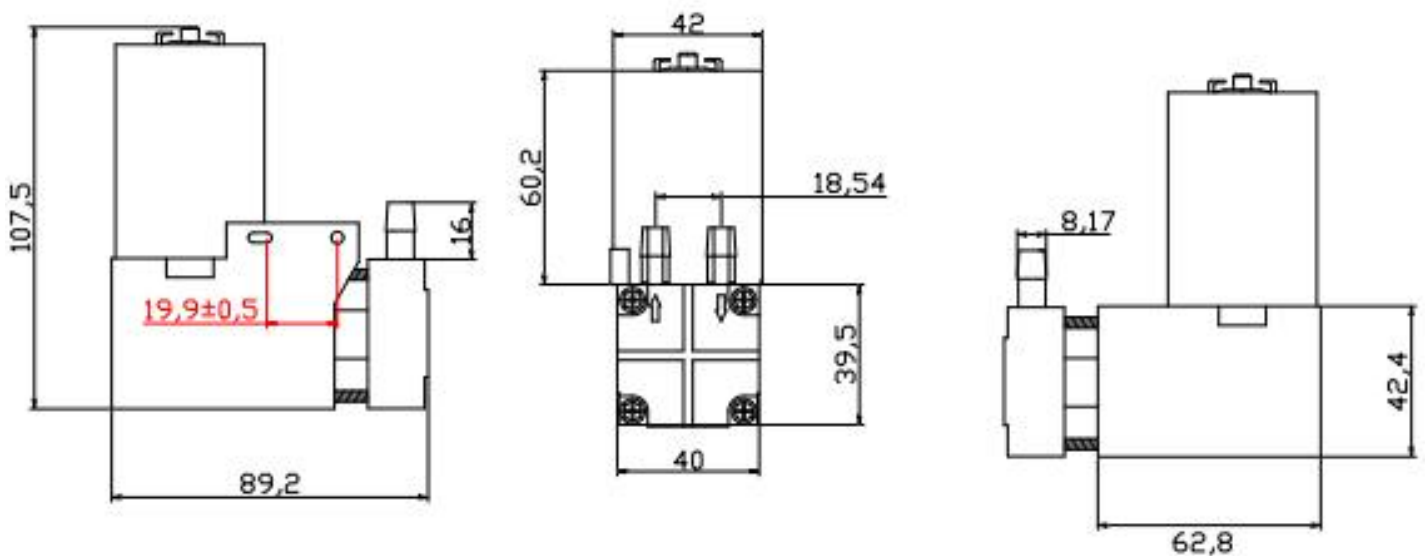
# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

FIG 2



## 7.外形尺寸 Dimensions



# 江苏佑诚至信机电设备有限公司

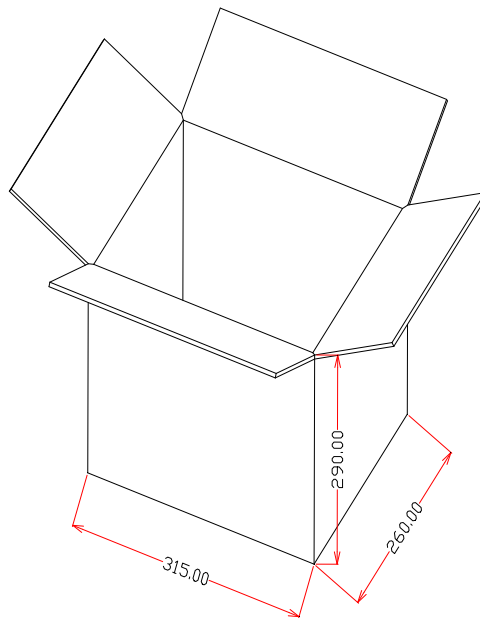
VN-C4-24V (无刷)

## 8. 圖片 photo



## 9. 包裝 Packing

每箱包裝數量 45PCS / carton



## 10. 重量 Products weight

g/pcs

kg/carton

# 江苏佑诚至信机电设备有限公司

VN-C4-24V (无刷)

## 11. ROHS 承諾書:

ROHS letter of commitment:

佑诚公司鄭重保證，本公司向提供的全部產品或零部件均不含以下禁止物質（包括未滿限制值的情況）

限用物質一覽表：國內外法律禁止製造、禁止使用、限制含有之物質。

- 1) Cadmium and its Compounds(Cd) 鎘及其化合物
- 2) Lead and its Compounds(Pb) 鉛及其化合物
- 3) Mercury and its Compounds(Hg) 水銀及其化合物
- 4) Hexavalent Chromium Compounds(Cr6+) 六價鉻化合物
- 5) Polybrominated Biphenyls (PBBs) 多溴聯苯
- 6) Polybrominated Diphenyl ethers(PBDEs) 多溴二苯醚
- 7) Asbestos 石棉
- 8) Polychlorinated Biphenyls (PCBs) 多氯化聯苯
- 9) Tributyl Tin Oxide(TBTO) 三丁基氧化錫
- 10) Tributyl Tins & Triphenyl Tins 三苯基錫及三丁基錫類
- 11) Formaldehyde 甲醛
- 12) Polychloronaphthalenes(Cl>3) 多氯化萘
- 13) Short Chain Chlorinated Paraffins 短鏈氯化石蠟
- 14) Brominated Flame Retardants 含溴阻燃劑
- 15) Vinyl Chloride Polymer PVC 膠皮
- 16) Azo Colorants 偶氮類染料及顏料
- 17) Ozone depleting Substances 破壞臭氧層物質
- 18) radioactive Substances 放射性物質

佑诚公司禁止物質限制值的標準：

- 1、Cadmium and its compounds(Cd) 鎘及其化合物 <100 ppm
  - 2、Lead and its Compounds(Pb) 鉛及其化合物 <1000 ppm
  - 3、Mercury and its Compounds(Hg) 水銀及其化合物 <1000 ppm
  - 4、Hexavalent chromium compounds(Cr6+) 六價鉻化合物 <1000 ppm
  - 5、Polybrominated Biphenyls(PBBs) 多溴聯苯 <1000 ppm
  - 6、Polybrominated Diphenyl ethers(PBDEs) 多溴二苯醚 <1000 ppm
12. 驗收標準：根據 MIL-STD-105E 單次抽樣，正常檢驗水準 II.