



SECOH SHANGHAI MEC.LTD.  
世晃(上海)机电工业有限公司

Diaphragm Linear Pumps  
[www.secoh-sh.com](http://www.secoh-sh.com)





世晃（上海）机电工业有限公司是一家以生产电磁式隔膜鼓风机的中日合资企业。自2005年成立以来，公司的业务范围已遍及中国，日本，俄罗斯，美国，欧洲，澳洲，东南亚等地区及国家。

"世晃牌" 隔膜泵源自日本大晃机械工业株式会社，是已有四十多制造经验的成熟产品，中日合资的世晃(上海)引进了国际先进的电磁式隔膜泵生产设备及技术，借鉴了日本资深专家的研发成果和技术经验，制造出能够满足客户特殊要求的各类电磁式隔膜泵，我们的产品已经在污水处理，渔业养殖，能源环保，医疗保健等多个领域得到广泛的应用和好评。

世晃生产的隔膜泵具有低噪音，低电耗，易保养，无需机油，震动小，结构紧密等优点。

公司坚持以科技与创新为依托，与日本籍工程师一起，培养了一支具有高素质管理人员和技术人才的队伍。世晃承诺将以最诚实的信用，最可靠的质量，最合理的价格，为国内外客户提供优质的产品和满意的服务，为逐步形成全球化的营销目标和服务网络而努力。

Secoh Shanghai Mec., Ltd. is a joint venture partnership with Secoh Japan, specialized in manufacturing diaphragm linear pump. Since establishment in 2005, Secoh is expanding quickly in China, Japan, Russia, USA, Europe, Australia, and other Asia areas.

Secoh diaphragm linear pump derives from Japan Taiko Kikai Industries Co., Ltd., which is one of mature products with more than forty years production experience. Secoh Shanghai has introduced a lot of technologies and equipments from Secoh Sangyo Ltd in production and management. And we also have learned and developed techniques from Japanese engineers. In the past years, we have developed many series of customized diaphragm linear pump. By now, our pumps are widely used in sewage system, fishing, energy reservation, and medical equipments, and have won very good reputation in those fields.

Low noise level, low power consumption, less maintenance, completely oil free, low vibration, and compact construction are major features of Secoh Pumps.

Secoh insists on innovation, technology, and training on employees. We have raised a professional R&D team and business talents with Japanese staff. Secoh always appreciates honest business, reliable quality, and competitive price, as our slogan for excellence service delivery to foreign and domestic customers. We will make all efforts for global sales and service network.



ISO9001认证企业  
ISO14001认证企业

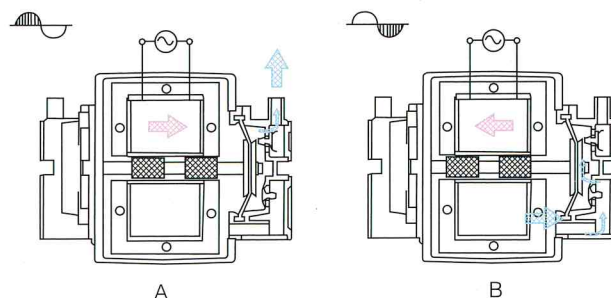


## Technical Principles 技术特性

### 工作原理 Operating principle:

气泵的工作原理是通过交变电流产生交变磁场，使磁铁来回震荡，带动振动膜，压缩空气。磁铁先朝着图A中箭头的方向运动，然后朝着图B中的箭头方向运动。磁铁以等同电源频率在电磁场之间来回运动，磁铁震荡时，连接着振动膜，改变阀箱的容积，产生压力和真空。

Linear compressors function by energizing that electromagnets oscillate a magnet in opposite directions. First the magnet moves in the direction of the arrow in Fig. A and then in the direction of the arrow in fig. B. The magnet moves back and forth between the electromagnets at the same frequency as the power supply. The magnet is connected to two diaphragms and as the magnet oscillates, it changes the valve box volume, which creates vacuum or pressure.



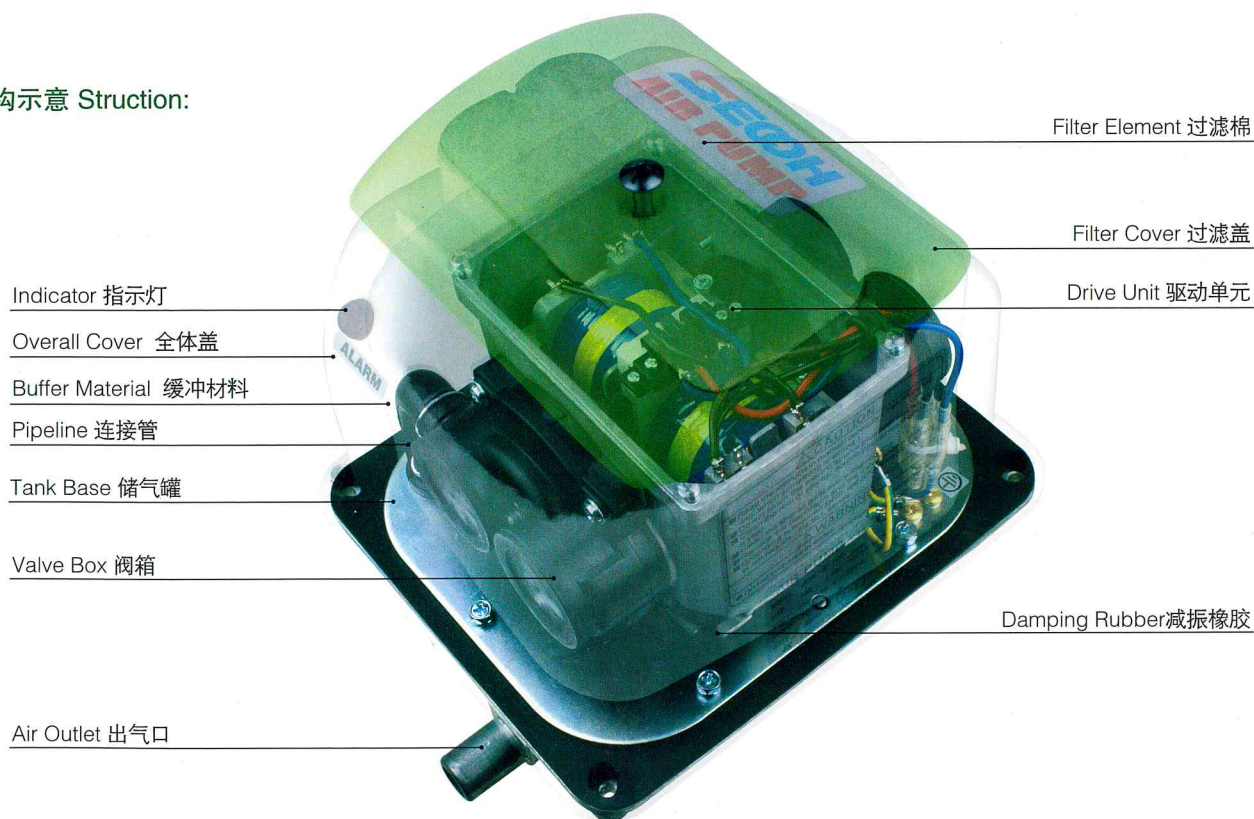
### 优点 Advantages:

- 高效率 High efficiency
- 低噪音 Low noise level
- 100%无油 100% oil free
- 长寿命 Long lifecycle
- 低耗能 Low power consumption
- 低振动 Low vibration
- 防雨，无需遮盖物 Rainproof, no need to cover
- 易维护 Simple maintenance
- 过载保护 Overload protection

### 用途 Applications:

- 污水处理系统 Onsite wastewater treatment plant
- 燃料电池 Fuel Cell
- 医疗辅助 Medical Therapy
- 气垫床 Air mattresses
- 水族曝气 Aquaculture aeration
- 喷墨打印机 Ink jet printers
- 血压监视仪 Blood cuff monitors
- 空气取样 Air sampling/monitoring
- 真空应用 Vacuum application

### 结构示意图 Struction:



# TPS Series

TPS-5 / TPS-8 / TPS-10

/TPS-15 / TPS-20

可选配件 Available Accessories:

☐ DC集成板 DC Integrated Board 12/24V

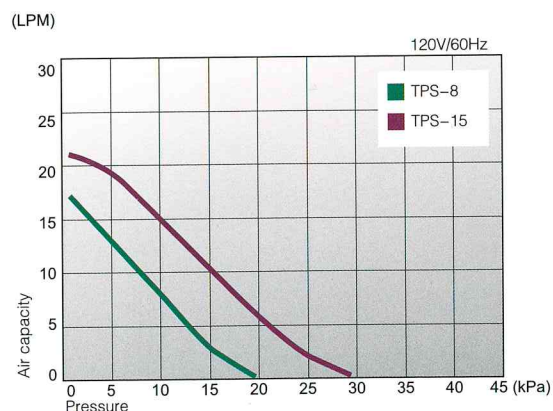
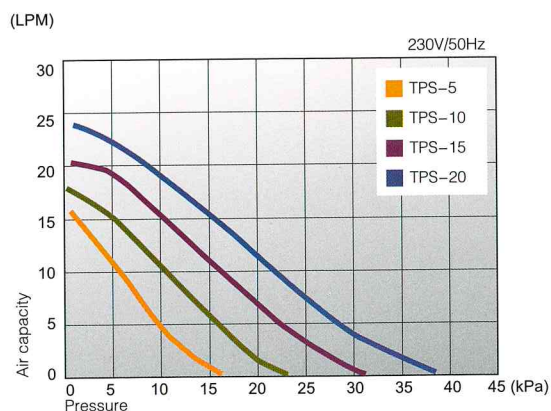


## 性能参数 Specifications

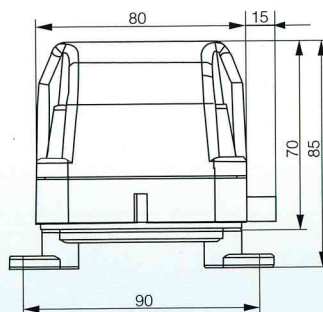
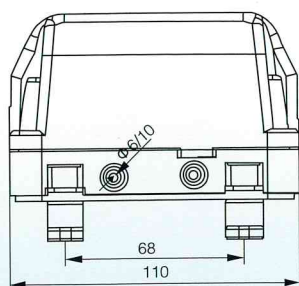
| Model<br>型号 | Voltage<br>电压 | Frequency<br>频率 | Rated pressure<br>额定压力 |      | Air flow<br>风量 |      | Power<br>功率 | Net weight<br>重量 |     | Sound(1m)<br>噪音 (1m) |
|-------------|---------------|-----------------|------------------------|------|----------------|------|-------------|------------------|-----|----------------------|
|             | VAC           | Hz              | kPa                    | PSI  | LPM            | CFM  | W           | Lbs.             | kg  | dB                   |
| TPS-5       | 230           | 50              | 10                     | 1.45 | 5              | 0.18 | 10          | 2.0              | 0.9 | 32                   |
| TPS-10      | 230           | 50              | 10                     | 1.45 | 10             | 0.35 | 6           | 2.0              | 0.9 | 35                   |
| TPS-15      | 230           | 50              | 10                     | 1.45 | 15             | 0.53 | 11          | 2.0              | 0.9 | 38                   |
| TPS-20      | 230           | 50              | 10                     | 1.45 | 20             | 0.7  | 18          | 2.0              | 0.9 | 40                   |
| TPS-8       | 120           | 60              | 10                     | 1.45 | 8              | 0.28 | 5           | 2.0              | 0.9 | 34                   |
| TPS-15      | 120           | 60              | 10                     | 1.45 | 15             | 0.53 | 11          | 2.0              | 0.9 | 38                   |

\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

## 性能曲线 Performance Curve:



## 外形尺寸 Dimensions(mm):



# SLL Series

**SLL-20/ SLL-30**  
**/ SLL-40 / SLL-50**

## 可选配件 Available Accessories:

- ☐ 报警器 Alarm Box
- ☐ 直流可调风量 DC Controllable Airflow

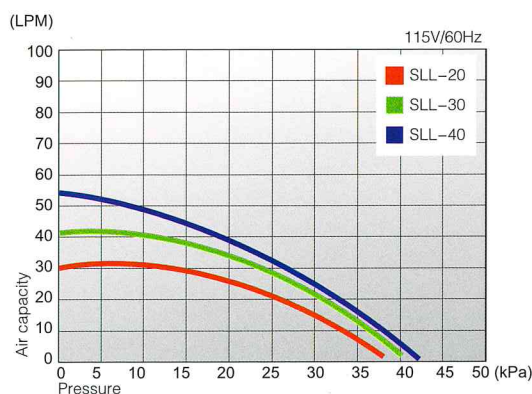
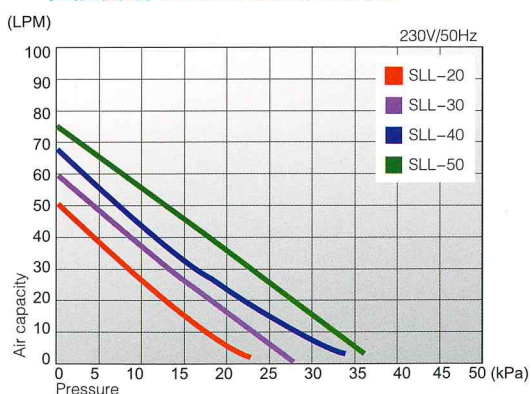


## 性能参数 Specifications

| Model<br>型号 | Model<br>型号 | Frequency<br>频率 | Rated pressure<br>额定压力 |     | Air flow<br>风量 |     | Power<br>功率 | Net weight<br>重量 |     | Sound(1m)<br>噪音 (1m) |
|-------------|-------------|-----------------|------------------------|-----|----------------|-----|-------------|------------------|-----|----------------------|
|             | VAC         | Hz              | kPa                    | PSI | LPM            | CFM | W           | Lbs.             | kg  | dB                   |
| SLL-20      | 115         | 60              | 11.8                   | 1.7 | 29             | 1.0 | 23          | 9.9              | 4.5 | 37                   |
|             | 230         | 50              | 11.8                   | 1.7 | 23             | 0.8 | 16          | 9.9              | 4.5 | 35                   |
| SLL-30      | 115         | 60              | 11.8                   | 1.7 | 39             | 1.3 | 36          | 9.9              | 4.5 | 38                   |
|             | 230         | 50              | 11.8                   | 1.7 | 33             | 1.2 | 25          | 9.9              | 4.5 | 36                   |
| SLL-40      | 115         | 60              | 11.8                   | 1.7 | 46             | 1.6 | 45          | 9.9              | 4.5 | 39                   |
|             | 230         | 50              | 11.8                   | 1.7 | 40             | 1.4 | 38          | 9.9              | 4.5 | 37                   |
| SLL-50      | 230         | 50              | 12.7                   | 1.8 | 50             | 1.7 | 48          | 9.9              | 4.5 | 38                   |

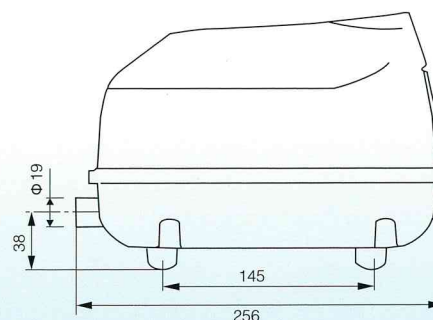
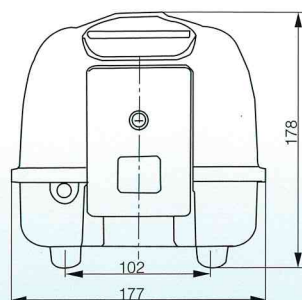
\*性能参数可能有正负10%的误差  
 Performance have  $\pm 10\%$  deviation

## 性能曲线 Performance Curve:



## 外形尺寸

Dimensions(mm):



# EL Series

EL-60 / EL-80-15 / EL-80-17  
/ EL-100 / EL-120 / EL-150

## 可选配件 Available Accessories:

- ☐ 报警器 Alarm Box
- ☐ 指示灯 Signal Lamp
- ☐ 信号线 Signal Wire
- ☐ 直流可调风量 DC Controllable Airflow

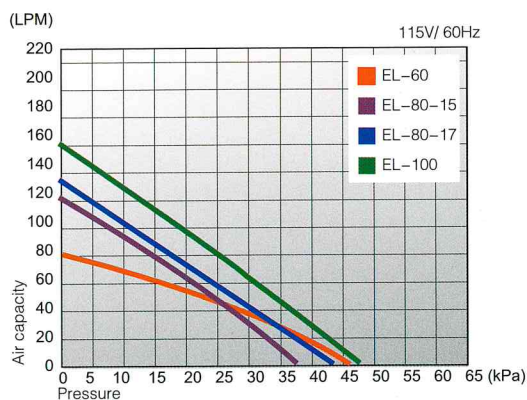
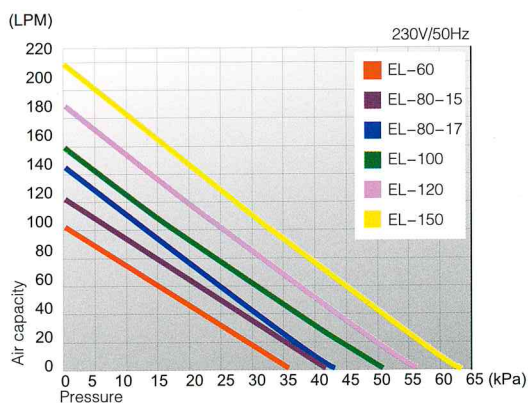


## 性能参数 Specifications

| Model<br>型号 | Model<br>型号 | Frequency<br>频率 | Rated pressure<br>额定压力 |     | Air flow<br>风量 |     | Power<br>功率 | Net weight<br>重量 |     | Sound(1.5m)<br>噪音 (1.5m) |
|-------------|-------------|-----------------|------------------------|-----|----------------|-----|-------------|------------------|-----|--------------------------|
|             | VAC         | Hz              | kPa                    | PSI | LPM            | CFM | W           | Lbs.             | kg  | dB                       |
| EL-60       | 115         | 60              | 14.7                   | 2.1 | 64             | 2.3 | 53          | 18.7             | 8.5 | 41                       |
|             | 230         | 50              | 14.7                   | 2.1 | 63             | 2.2 | 46          | 18.7             | 8.5 | 36                       |
| EL-80-15    | 115         | 60              | 14.7                   | 2.1 | 80             | 2.8 | 60          | 18.7             | 8.5 | 42                       |
|             | 230         | 50              | 14.7                   | 2.1 | 82             | 2.9 | 75          | 18.7             | 8.5 | 38                       |
| EL-80-17    | 115         | 60              | 16.7                   | 2.4 | 85             | 3.0 | 72          | 18.7             | 8.5 | 43                       |
|             | 230         | 50              | 16.7                   | 2.4 | 85             | 3.0 | 73          | 18.7             | 8.5 | 38                       |
| EL-100      | 115         | 60              | 16.7                   | 2.4 | 108            | 3.8 | 105         | 18.7             | 8.5 | 46                       |
|             | 230         | 50              | 16.7                   | 2.4 | 102            | 3.6 | 98          | 18.7             | 8.5 | 40                       |
| EL-120      | 230         | 50              | 19.6                   | 2.8 | 123            | 4.3 | 120         | 19.8             | 9   | 47                       |
| EL-150      | 230         | 50              | 19.6                   | 2.8 | 150            | 5.3 | 150         | 19.8             | 9   | 55                       |

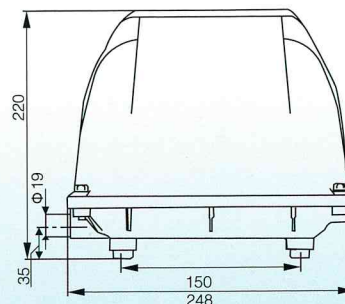
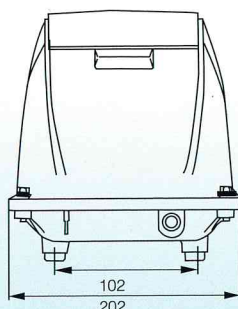
\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

## 性能曲线 Performance Curve:



## 外形尺寸

Dimensions(mm):



# EL Series

EL-120W / EL-150W  
/ EL-200W / EL-250W  
/ EL-300W

## 可选配件 Available Accessories:

- ☐ 报警器 Alarm Box
- ☐ 指示灯 Signal Lamp
- ☐ 信号线 Signal Wire
- ☐ 直流可调风量 DC Controllable Airflow

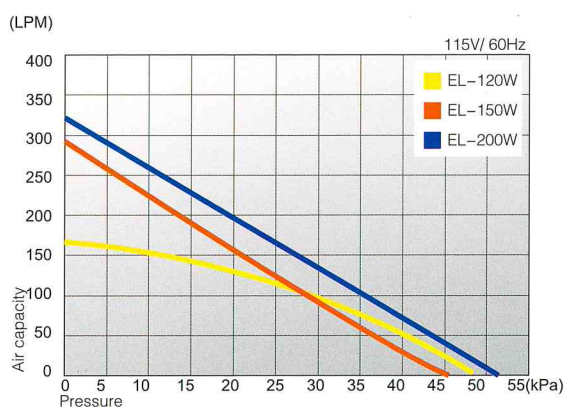
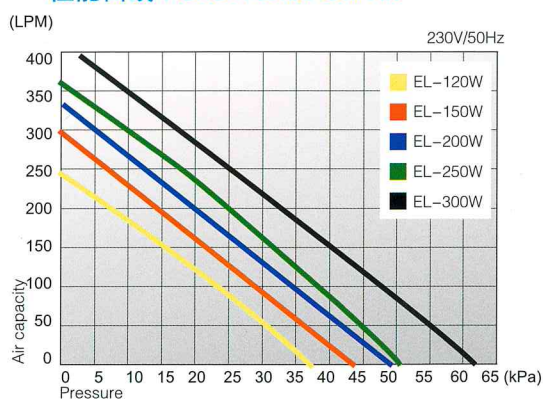


## 性能参数 Specifications

| Model<br>型号 | Voltage<br>电压 | Frequency<br>频率 | Rated pressure<br>额定压力 |     | Air flow<br>风量 |     | Power<br>功率 | Net weight<br>重量 |    | Sound(1.5m)<br>噪音 (1.5m) |
|-------------|---------------|-----------------|------------------------|-----|----------------|-----|-------------|------------------|----|--------------------------|
|             | VAC           | Hz              | kPa                    | PSI | LPM            | CFM | W           | Lbs.             | kg | dB                       |
| EL-120W     | 115           | 60              | 19.6                   | 2.8 | 125            | 4.4 | 125         | 35.3             | 16 | 46                       |
|             | 230           | 50              | 19.6                   | 2.8 | 125            | 4.4 | 120         | 35.3             | 16 | 43                       |
| EL-150W     | 115           | 60              | 19.6                   | 2.8 | 150            | 5.3 | 150         | 35.3             | 16 | 48                       |
|             | 230           | 50              | 19.6                   | 2.8 | 158            | 5.6 | 149         | 35.3             | 16 | 44                       |
| EL-200W     | 115           | 60              | 19.6                   | 2.8 | 200            | 7.0 | 200         | 35.3             | 16 | 49                       |
|             | 230           | 50              | 19.6                   | 2.8 | 200            | 7.0 | 200         | 35.3             | 16 | 45                       |
| EL-250W     | 230           | 50              | 19.6                   | 2.8 | 240            | 8.5 | 240         | 35.3             | 16 | 55                       |
| EL-300W     | 230           | 50              | 19.6                   | 2.8 | 280            | 9.5 | 300         | 35.3             | 16 | 60                       |

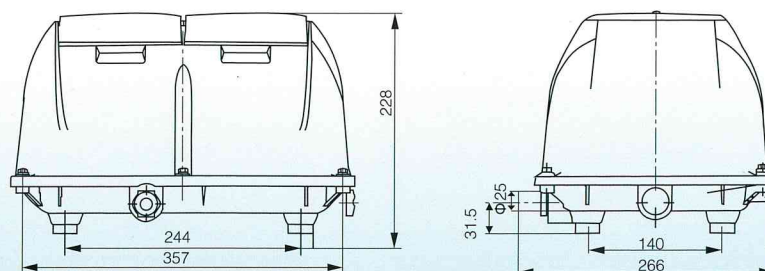
\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

## 性能曲线 Performance Curve:



## 外形尺寸

Dimensions(mm):



# JDK Series

JDK-20 / JDK-30

/ JDK-40 / JDK-50

可选配件 Available Accessories:

- ☐ 报警器 Alarm Box
- ☐ 指示灯 Signal Lamp
- ☐ 直流可调风量 DC Controllable Airflow

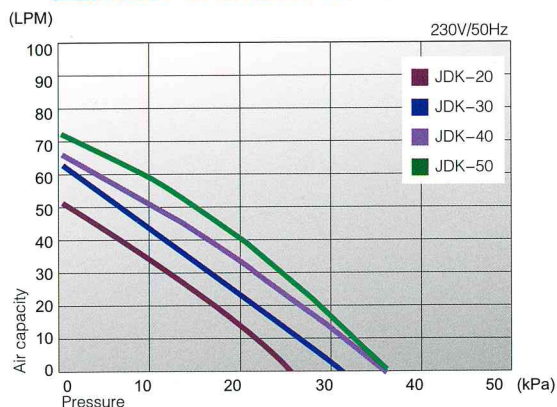


## 性能参数 Specifications

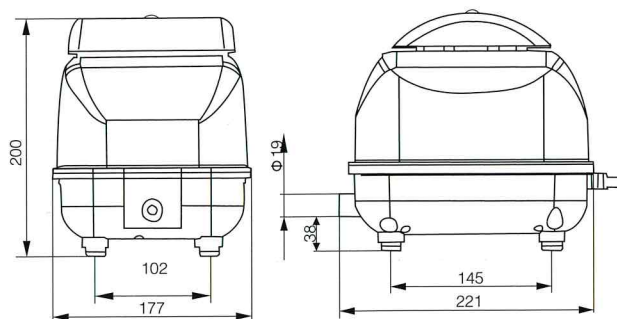
| Model<br>型号 | Voltage<br>电压 | Frequency<br>频率 | Rated pressure<br>额定压力 |     | Air flow<br>风量 |     | Power<br>功率 | Net weight<br>重量 |     | Sound(1m)<br>噪音 (1m) |
|-------------|---------------|-----------------|------------------------|-----|----------------|-----|-------------|------------------|-----|----------------------|
|             | VAC           | Hz              | kPa                    | PSI | LPM            | CFM | W           | Lbs.             | kg  | dB                   |
| JDK-20      | 230           | 50              | 11.8                   | 1.7 | 32             | 1.1 | 23          | 11.5             | 4.3 | 33                   |
| JDK-30      | 230           | 50              | 11.8                   | 1.7 | 41             | 1.4 | 34          | 11.5             | 4.3 | 34                   |
| JDK-40      | 230           | 50              | 11.8                   | 1.7 | 48             | 1.7 | 42          | 11.5             | 4.3 | 37                   |
| JDK-50      | 230           | 50              | 12.7                   | 1.8 | 55             | 1.9 | 50          | 11.5             | 4.3 | 39                   |

\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

## 性能曲线 Performance Curve:



## 外形尺寸 Dimensions(mm):



# JDK Series

JDK-60 / JDK-80

/ JDK-100 / JDK-120

## 可选配件 Available Accessories:

- ☐ 报警器 Alarm Box
- ☐ 指示灯 Signal Lamp
- ☐ 信号线 Signal Wire
- ☐ 直流可调风量 DC Controllable Airflow

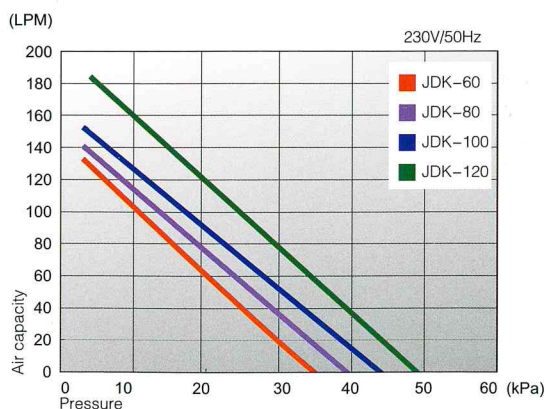


## 性能参数 Specifications

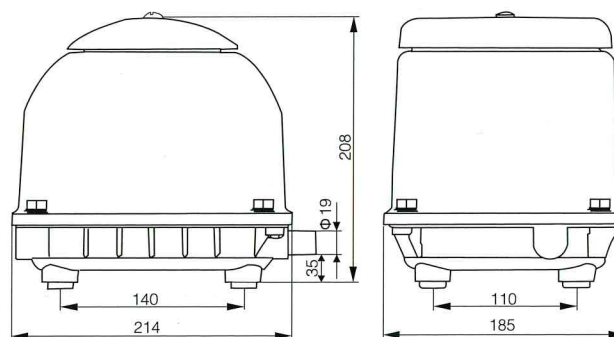
| Model<br>型号 | Voltage<br>电压 | Frequency<br>频率 | Rated pressure<br>额定压力 |     | Air flow<br>风量 |     | Power<br>功率 | Net weight<br>重量 |     | Sound(1m)<br>噪音 (1m) |
|-------------|---------------|-----------------|------------------------|-----|----------------|-----|-------------|------------------|-----|----------------------|
|             | VAC           | Hz              | kPa                    | PSI | LPM            | CFM | W           | Lbs.             | kg  | dB                   |
| JDK-60      | 230           | 50              | 19.6                   | 2.8 | 60             | 2.1 | 40          | 14.3             | 6.5 | 38                   |
| JDK-80      | 230           | 50              | 19.6                   | 2.8 | 75             | 2.6 | 53          | 14.3             | 6.5 | 40                   |
| JDK-100     | 230           | 50              | 19.6                   | 2.8 | 95             | 3.3 | 76          | 14.3             | 6.5 | 42                   |
| JDK-120     | 230           | 50              | 19.6                   | 2.8 | 120            | 4.2 | 95          | 14.3             | 6.5 | 45                   |

\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

## 性能曲线 Performance Curve:



## 外形尺寸 Dimensions(mm):



# MK Serie

## MK-10

可选配件 Available Accessories:  
☐ DC集成板 DC Integrated Board

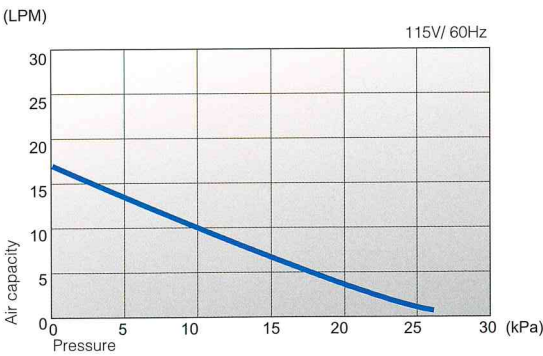
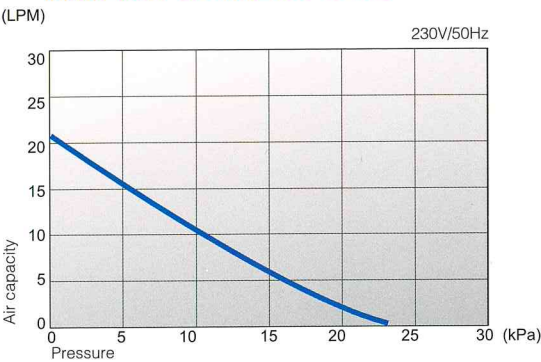


### 性能参数 Specifications

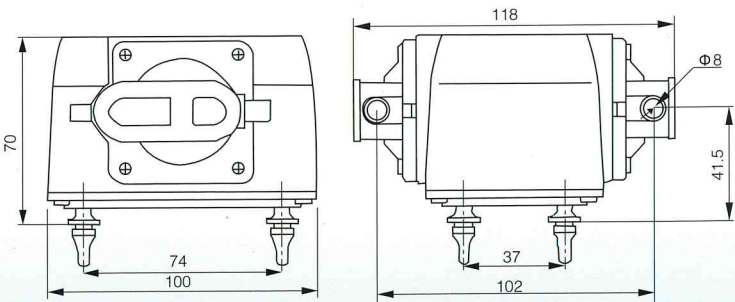
| Model<br>型号 | Voltage<br>电压 | Frequency<br>频率 | Rated pressure<br>额定压力 |      | Air flow<br>风量 |      | Power<br>功率 | Net weight<br>重量 |     | Sound(1m)<br>噪音 ( 1m ) |
|-------------|---------------|-----------------|------------------------|------|----------------|------|-------------|------------------|-----|------------------------|
|             | VAC           | Hz              | kPa                    | PSI  | LPM            | CFM  | W           | Lbs.             | kg  | dB                     |
| MK-10       | 115           | 60              | 10                     | 1.45 | 10             | 0.35 | 8           | 1.5              | 0.7 | 38                     |
|             | 230           | 50              | 10                     | 1.45 | 10             | 0.35 | 8           | 1.5              | 0.7 | 38                     |

\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

### 性能曲线 Performance Curve:



### 外形尺寸 Dimensions(mm):



# MKC Serie

## MKC-510V

可选配件 Available Accessories:

☐ DC集成板 DC Integrated Board

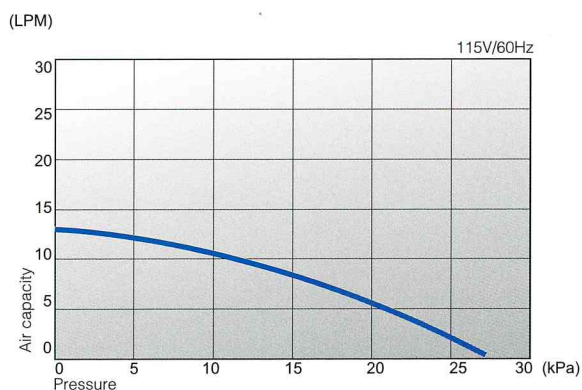
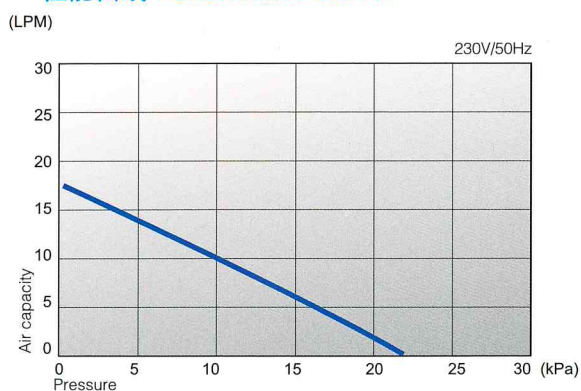


### 性能参数 Specifications

| Model<br>型号 | Voltage<br>电压 | Frequency<br>频率 | Rated pressure<br>额定压力 |      | Air flow<br>风量 |      | Power<br>功率 | Net weight<br>重量 |     | Sound(1m)<br>噪音 (1m) |
|-------------|---------------|-----------------|------------------------|------|----------------|------|-------------|------------------|-----|----------------------|
|             | VAC           | Hz              | kPa                    | PSI  | LPM            | CFM  | W           | Lbs.             | Kg  | dB                   |
| MKC-510V    | 115           | 60              | 10                     | 1.45 | 10             | 0.35 | 8           | 2.6              | 1.2 | 30                   |
|             | 230           | 50              | 10                     | 1.45 | 10             | 0.35 | 8           | 2.6              | 1.2 | 30                   |

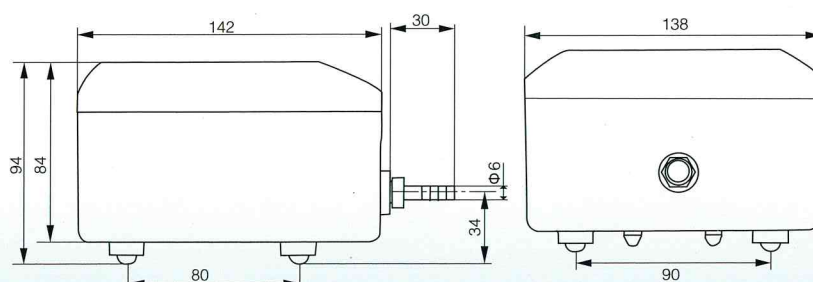
\*性能参数可能会有正负10%的误差  
Performance have  $\pm 10\%$  deviation

### 性能曲线 Performance Curve:



### 外形尺寸

Dimensions(mm):





## TPM Series

TPM-20 / TPM-30  
/ TPM-40 / TPM-50

☐ DC集成板 DC Integrated Board

风量 Airflow: 20 – 50 L/min  
设计用于医疗 Designed for medical application  
可变橡胶脚 Flexible rubber feet



1

2

## TKO-T Series

风量 Airflow: 60–120 L/min  
设计用于专业污水处理系统 Designed for special  
wastewater treatment system  
双出气孔 Dual Outlet  
可控制计时器 Controllable Timer  
完美配合逆洗 Perfect for reverse wash



3

## SV Series

SV-20 / SV-30  
/ SV-40 / SV-50

风量 Airflow: 20 – 50 L/min  
不带外壳产品 Product without closure  
配套客户产品使用 Designed to install in customer's product  
长寿命性能稳定 High performance and long lifecycle



4

## EL Serie

EL-60n

☐ 指示灯 Signal Lamp  
☐ DC集成板 DC Integrated Board

风量 Airflow: 60L/min  
塑料外壳 Plastic closure  
明星产品 Star Product



## 可选配件 Optional accessories

### 报警器 Alarm Box

内置压力开关 Pressure sensor set inside  
高低压可感应 High – Low pressure induced  
蜂鸣器报警 Buzzer beeping



### 指示灯 Signal Lamp

简单配件 Easiest accessory  
隔膜泵停止报警 Light on when pump  
stop working



### 信号线 Signal Wire

连接客户报警设备 Connect to customer alarm system  
长度可定制 Variable Length  
操作安全 Operational Safety



### 直流可调风量 DC CONTROLLABLE AIRFLOW

实现可变风量 Controllable airflow  
12/24/48V根据型号可选 12/24/48V Available based on different models  
内置保护系统 Electronic Protection Inside





| 专业 | 高效 | 低能耗  
Professional Efficient Energy-Saving ...



SECOH SHANGHAI MEC.LTD.  
世晃(上海)机电工业有限公司

地址:上海市浦东新区宣桥镇宣春路160号  
Tel:86-21-58039276  
Fax:86-24-58039265  
E-mail:secoh@secoh-sh.com

Address:NO. 160, Xuan Chun Road,XuanQiao Town,Pudong New District,Shanghai,China.  
58039273  
PC:201300  
<http://www.secoh-sh.com>