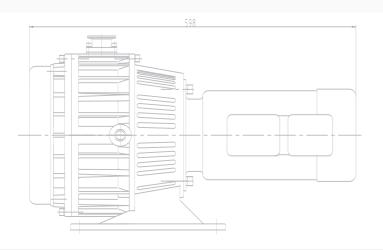
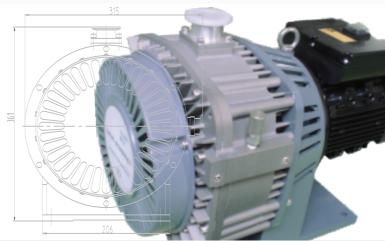


# **OILFREE SCROLL VACUUM PUMP**





### **OIL FREE SCROLL VACUUM PUMP**



## **GWSP**

### **Construction and Operating Principle**

GWSP series oil free scroll vacuum pump is constructed with fixed scrolls, orbiting scroll, main shaft, cooling fans, crank shaft kits, and bracket.



Its' operating principle is based on two spiral cylinders, one offset and orbiting against the other with an offset of 180°. Thus several crescent-shaped pockets of differing sizes are created. By means of an eccentric drive, the orbiting scroll is made to orbit about the fixed scroll, reducing the volume of the pockets and compressing gases from the outside towards the inside thereby pumping the gases from vacuum chamber.









0°(360°) gas suction

90° gas pressing

180° further compressing

270° discharging

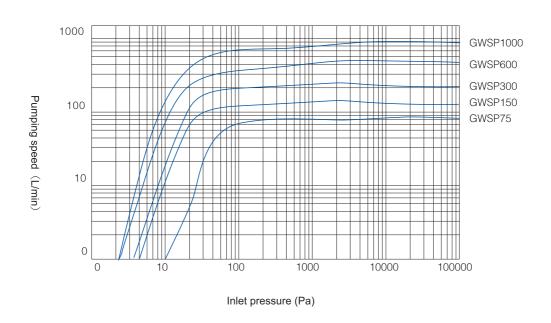
### **Applications**

|                                    | Industry     | Semiconductor | Power/Chemical | Food/Pharmaceutical | R&D          | Analyzer     |
|------------------------------------|--------------|---------------|----------------|---------------------|--------------|--------------|
| Vacuum packaging storage           | $\sqrt{}$    | $\sqrt{}$     |                | $\checkmark$        | $\checkmark$ |              |
| Vacuum oven                        | V            | $\checkmark$  |                |                     | $\checkmark$ |              |
| Vacuum exhauster                   | $\sqrt{}$    | V             |                |                     | V            | $\checkmark$ |
| Oven/freeze drying                 | $\sqrt{}$    | $\checkmark$  | $\checkmark$   | $\checkmark$        | $\checkmark$ |              |
| Gas recirculation                  | $\sqrt{}$    | $\sqrt{}$     | $\checkmark$   | $\checkmark$        | $\checkmark$ | $\checkmark$ |
| Air condition gas line pumping     | $\sqrt{}$    |               |                |                     |              |              |
| Breaker gas line pumping           | $\sqrt{}$    | $\sqrt{}$     | $\checkmark$   | $\checkmark$        | $\checkmark$ |              |
| Laser tube vacuum pumping          | $\sqrt{}$    |               |                |                     | $\checkmark$ |              |
| Rough pump for molecular pump      | $\sqrt{}$    | $\checkmark$  |                | $\checkmark$        | V            | $\checkmark$ |
| Vacuum processing                  | $\sqrt{}$    | $\checkmark$  | $\checkmark$   | $\checkmark$        |              |              |
| Vacuum plating                     | $\sqrt{}$    | $\checkmark$  |                |                     | $\checkmark$ | $\checkmark$ |
| Leak detecting                     | $\sqrt{}$    | $\checkmark$  | $\checkmark$   |                     | $\checkmark$ | $\sqrt{}$    |
| Glove box                          | $\checkmark$ |               |                | <b>√</b>            | V            |              |
| Mass spectrometer                  |              |               |                |                     | $\checkmark$ | $\sqrt{}$    |
| Electron microscopy                |              |               |                |                     | $\checkmark$ | $\sqrt{}$    |
| High-energy beam lines accelerator |              |               |                |                     | $\checkmark$ | $\checkmark$ |
| Oilfree vacuum testing station     |              |               |                |                     | $\checkmark$ |              |
| Sample preparation                 |              |               |                |                     | V            | $\checkmark$ |

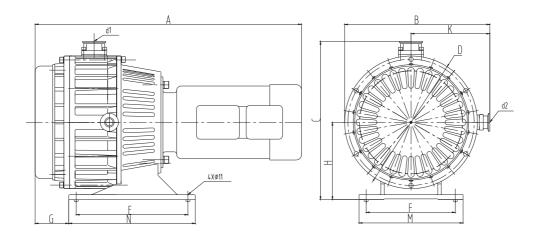


# **GWSP**

### **Performance Curve**



### Connection



| Size     | А   | В   | С   | D   | E   | F   | G   | Н   | М   | Ν   | K   | d1 | d2   |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|------|
| GWSP75   | 350 | 210 | 245 | 187 | 179 | 140 | 42  | 125 | 160 | 204 | 116 | 25 | 16   |
| GWSP150  | 430 | 250 | 280 | 220 | 214 | 109 | 86  | 130 | 155 | 250 | 135 | 25 | 16   |
| GWSP300  | 490 | 290 | 340 | 267 | 252 | 145 | 101 | 201 | 192 | 288 | 156 | 25 | 16   |
| GWSP600  | 520 | 316 | 360 | 291 | 252 | 160 | 93  | 175 | 206 | 288 | 175 | 40 | 16   |
| GWSP1000 | 580 | 360 | 400 | 336 | 267 | 184 | 121 | 195 | 224 | 303 | 191 | 40 | 16×2 |





# **GWSP**

| Model        |             |          | GWSP75 | GWSP150   | GWSP300                       | GWSP600                   | GWSP1000                  |                           |  |  |  |  |
|--------------|-------------|----------|--------|---|-------------------------------|---------------------------|---------------------------|---------------------------|--|--|--|--|
|              |             |          | l/s    | 1.0   | 2.0                           | 4.3                       | 8.7                       | 16.6                      |  |  |  |  |
|              |             | 50LI=    | l/min  | 60.0  | 120.0                         | 258.0                     | 522.0                     | 996.0                     |  |  |  |  |
|              |             | 50Hz     | m³/h   | 3.6   | 7.2                           | 15.5                      | 31.3                      | 59.8                      |  |  |  |  |
| Dienla       | cement      |          | cfm    | 2.2   | 4.3                           | 9.3                       | 18.7                      | 35.8                      |  |  |  |  |
| Dispia       | cement      |          | l/s    | 1.2   | 2.4                           | 5.1                       | 10.4                      | 19.9                      |  |  |  |  |
|              |             | 60Hz     | l/min  | 72.0  | 144.0                         | 306.0                     | 624.0                     | 1194.0                    |  |  |  |  |
|              |             | 00112    | m³/h   | 4.3   | 8.6                           | 18.3                      | 37.4                      | 71.6                      |  |  |  |  |
|              |             |          | cfm    | 2.5   | 5.1                           | 10.9                      | 22.3                      | 42.8                      |  |  |  |  |
|              |             |          | Pa     | ≦10   | ≦8.0                          | ≦2.6                      | ≦1.0                      | ≦1.0                      |  |  |  |  |
| Liltima      | ite Pressi  | ıro      | Torr   | $\leq 7.5 \times 10^{-2}$                                   | $\leq$ 6.0 × 10 <sup>-2</sup> | $\leq 1.9 \times 10^{-2}$ | $\leq 7.5 \times 10^{-3}$ | $\leq 7.5 \times 10^{-3}$ |  |  |  |  |
| Ollima       | ile Fressi  | ii e     | mbar   | $\leq 1.0 \times 10^{-1}$                                   | $\leq$ 8.0 × 10 <sup>-2</sup> | $\leq 2.6 \times 10^{-2}$ | $\leq 1.0 \times 10^{-2}$ | $\leq 1.0 \times 10^{-2}$ |  |  |  |  |
|              |             |          | psi    | $\leq 1.4 \times 10^{-3}$                                   | $\leq 1.2 \times 10^{-3}$     | ≦3.8 × 10 <sup>-4</sup>   | $\leq 1.4 \times 10^{-4}$ | $\leq 1.4 \times 10^{-4}$ |  |  |  |  |
| Noise        | Level       |          | dB(A)  | ≦52   | ≦57                           | ≦61                       | ≦63                       | ≦67                       |  |  |  |  |
| Leaka        | .ge         |          |        | 1 × 10 <sup>-2</sup> Pa•l/s(1 × 10 <sup>-4</sup> mbar• l/s) |                               |                           |                           |                           |  |  |  |  |
| Max. In      | let/Exhaust | Pressure | MPa    | 0.1 /0.13   |                               |                           |                           |                           |  |  |  |  |
| Ambien       | t Operation | Temp.    | °C/°F  |   |                               | 5 ~ 40/41 ~ 104           |                           |                           |  |  |  |  |
| Max. W       | ater Treatm | ent      | G/h    | 5   | 60                            |                           |                           |                           |  |  |  |  |
|              | Output      |          | kW/hp  | 0.15/0.20   | 0.25/0.30                     | 0.55/0.74                 | 0.75/1.00                 | 1.50/2.00                 |  |  |  |  |
| Motor        | Voltage     | •        | VAC    | 380/220   |                               |                           |                           |                           |  |  |  |  |
| 3<br>phase   | Coood       | 50Hz     | rpm    | 1410  |                               |                           |                           |                           |  |  |  |  |
|              | Speed       | 60Hz     | rpm    |   |                               | 1680                      |                           |                           |  |  |  |  |
|              | Output      |          | kW/hp  | 0.15/0.20   | 0.25/0.30                     | 0.55/0.74                 | 0.75/1.00                 |                           |  |  |  |  |
| Motor        | Voltage     |          | VAC    |   |                               | 220/110                   |                           |                           |  |  |  |  |
| 1<br>phase   | 0           | 50Hz     | rn.m   |   |                               | 1410                      |                           |                           |  |  |  |  |
|              | Speed       | 60Hz     | rpm    |   |                               | 1680                      |                           |                           |  |  |  |  |
| Inlet/E      | xhaust Fl   | ange     | mm     | KF25/16   | KF25/16                       | KF25/16                   | KF40/16                   | KF40/16 × 2               |  |  |  |  |
| Dimer        | nsions      |          | mm     | 350 × 210 × 245   | 430 × 250 × 280               | 490 × 290 × 267           | 520 × 316 × 360           | 580 × 360 × 400           |  |  |  |  |
| Packir       | ng Dimen    | sion     | mm     | 400 × 300 × 340   | 550 × 400 × 420               | 650 × 450 × 480           | 650 × 450 × 480           | 750 × 500 × 520           |  |  |  |  |
| Net W        | eight eight |          | kg     | 13  | 18                            | 32                        | 38                        | 52                        |  |  |  |  |
| Gross        | Weight      |          | kg     | 21  | 27                            | 42                        | 50                        | 65                        |  |  |  |  |
| Cooling Type |             |          |        | Air cooled  |                               |                           |                           |                           |  |  |  |  |
| Others       |             |          |        | With air flush  |                               |                           |                           |                           |  |  |  |  |

### **FORELINE FILTER**

## **GWT**

#### **Construction and Operating Principle**

GWT series fore line filters are designed to stop dust particles made in the vacuum process from reaching GWSP series scroll pump. It is constructed with case, filter elements, seals, and quick release flange. Filter case is made of aluminum alloy, through hard anodized corrosion–resistant



surface treatment. Filter element is reusable and removed. Filtration efficiency can be up to 98% for dust particles, chemical fumes and spray of diameter greater than 10 micron for pharmaceuticals, food processing, ceramics and glass processing, vacuum furnaces and vacuum packing machines and other air filtration process.

#### **Features**

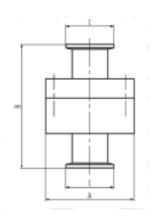
Reliable and high efficient performance, simple structure.

The filter element can be easily remove, clean and replaced.

With GWT series gas particulate filter, the scroll pump maintenance cycle can be extended by 200%.

### **Technical Specification**

| Model                  | GWT25                     | GWT40                     |  |  |  |
|------------------------|---------------------------|---------------------------|--|--|--|
| Operating Pressure     | 1 ~ 10⁵Pa                 |                           |  |  |  |
| Efficiency             | ≥9                        | 98%                       |  |  |  |
| Flitting Particle Size | ≥ 10 µ m                  |                           |  |  |  |
| Operating Temperature  | -20 ~                     | 140°C                     |  |  |  |
| In/Outlet Size         | KF25/KF25                 | KF40/KF40                 |  |  |  |
| Dimensions             | Ø74(A) × 104(B) × KF25(C) | Ø94(A) × 124(B) × KF40(C) |  |  |  |



#### **Applications**

|                    | GWT25 | GWT40 |
|--------------------|-------|-------|
| Coating            | *     | *     |
| Pharmaceutical     | *     | *     |
| Food               | *     | *     |
| Ceramics and Glass | *     | *     |
| Vacuum Furnaces    | *     | *     |
| Vacuum Packing     | *     | *     |



## **GWSPS**

### **Construction and Operating Principle**

GWSPS series oil free scroll vacuum pump is constructed with fixed scrolls, orbiting scroll, main shaft, cooling fans, crank shaft kits, and bracket.



Its' operating principle is based on two spiral cylinders, one offset

and orbiting against the other with an offset of 180°. Thus several crescent-shaped pockets of differing sizes are created. By means of an eccentric drive, the orbiting scroll is made to orbit about the fixed scroll, reducing the volume of the pockets and compressing gases from the outside towards the inside thereby pumping the gases from vacuum chamber.

In the pumping course bearings and airflow channel is completely isolated, thus GWSPS oil-free scroll vacuum pump can be expanded its usage to a wider area of the oil and gas recovery, chemical and pharmaceutical industry.







90° gas pressing



180° further compressing



270° discharging

#### **Applications**

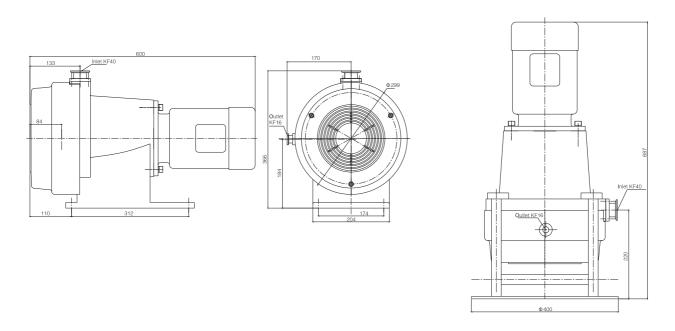
|                                | Industry     | Car/Light    | Energy/Steel | Petrochemical | Electronics  | Food/ Pharmaceutical | R&D          |
|--------------------------------|--------------|--------------|--------------|---------------|--------------|----------------------|--------------|
| Vacuum extraction              |              |              |              | $\checkmark$  |              | $\sqrt{}$            | $\checkmark$ |
| Vacuum heat treatment          | $\checkmark$ | $\checkmark$ | $\checkmark$ |               |              |                      |              |
| Gas recovery and recirculation |              |              |              | $\checkmark$  | $\checkmark$ |                      | $\checkmark$ |
| Glove box                      | $\checkmark$ |              | $\checkmark$ | $\checkmark$  | $\checkmark$ | V                    | $\checkmark$ |
| Oven/freeze drying             | $\checkmark$ |              | $\checkmark$ | $\checkmark$  | $\checkmark$ | $\vee$               | $\checkmark$ |
| Air condition gas line pumping | $\checkmark$ |              |              |               | $\checkmark$ |                      | $\checkmark$ |
| Breaker gas line pumping       |              | $\checkmark$ |              |               | $\checkmark$ |                      | $\sim$       |
| Sample Preparation             |              |              |              |               |              | V                    | $\checkmark$ |
| Vacuum packaging storage       | $\checkmark$ |              | $\vee$       |               | $\checkmark$ | $\sqrt{}$            | $\sqrt{}$    |
| Gel drying                     | $\checkmark$ |              |              | $\checkmark$  |              |                      | V            |
| Rough pump for molecular pump  | $\checkmark$ |              |              |               | $\checkmark$ | $\vee$               | $\sqrt{}$    |
| Vacuum exhauster               | V            |              | $\checkmark$ | $\checkmark$  | $\checkmark$ | $\checkmark$         | $\sqrt{}$    |
| Pharmaceutical                 | V            |              |              |               | $\checkmark$ | $\sqrt{}$            | $\sqrt{}$    |

### OIL FREE SCROLL VACUUM PUMP



# **GWSPS**

### Connection



| Model                       |       | GWSPS500                      | GWSPS900                       |  |  |  |
|-----------------------------|-------|-------------------------------|--------------------------------|--|--|--|
|                             | l/s   | 6.7                           | 11.6                           |  |  |  |
| Dianlacement                | l/min | 402                           | 693                            |  |  |  |
| Displacement                | m3/h  | 24.1                          | 41.6                           |  |  |  |
|                             | cfm   | 14.2                          | 24.6                           |  |  |  |
|                             | Pa    | ≦10                           | ≦400                           |  |  |  |
| Ultimate Pressure           | Torr  | ≦7.5 × 10 <sup>-2</sup>       | ≦3                             |  |  |  |
| Ottimate Fressure           | mbar  | $\leq 1.0 \times 10^{-1}$     | ≦4                             |  |  |  |
|                             | psi   | ≤1.45 × 10 <sup>-3</sup>      | ≦5.80 × 10 <sup>-2</sup>       |  |  |  |
| Leakage                     |       | 1 × 10 <sup>-2</sup> Pa l/s ( | 1 × 10 <sup>-4</sup> mbar l/s) |  |  |  |
| Max. Inlet/Exhaust Pressure | MPa   | 0.1/0.13                      |                                |  |  |  |
| Ambient Operation Temp      | °C/°F | 5 ~ 40/41 ~ 104               |                                |  |  |  |
| Output                      | kW/hp | 0.75/1.00                     |                                |  |  |  |
| Motor Voltage               | VAC   | 380                           |                                |  |  |  |
| Speed                       | rpm   | 1410                          |                                |  |  |  |
| Noise Level                 | dB(A) | ≦                             | 67                             |  |  |  |
| Inlet/Exhaust Flange        | mm    | KF40/16                       |                                |  |  |  |
| Cooling Type                |       | Air cooled                    |                                |  |  |  |
| Weight                      | kg    |                               | 36                             |  |  |  |



## **GWSPL**

### **Construction and Operating Principle**

GWSPL series oil free scroll vacuum pump is constructed with fixed scrolls, orbiting scroll, main shaft, cooling fans, crank shaft kits, and bracket.



Its' operating principle is based on two spiral cylinders, one offset and orbiting against the other with an offset of 180°. Thus several crescent-shaped pockets of differing sizes are created. By means of an eccentric drive, the orbiting scroll is made to orbit about the fixed scroll, reducing the volume of the pockets and compressing gases from the outside towards the inside thereby pumping the gases from vacuum chamber.







90° gas pressing

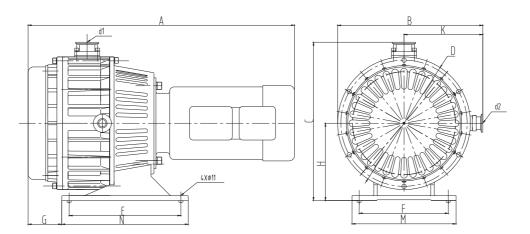


180° further compressing



270° discharging

#### Connection



| Model Size | Α   | В   | С   | D   | Е   | F   | G   | Н   | H1  | М   | Ν   | d1 | d2   |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|------|
| GWSLP75    | 350 | 210 | 245 | 187 | 179 | 140 | 42  | 125 | 160 | 204 | 116 | 25 | 16   |
| GWSPL150   | 430 | 250 | 280 | 220 | 214 | 109 | 86  | 130 | 155 | 250 | 135 | 25 | 16   |
| GWSPL300   | 490 | 290 | 340 | 267 | 252 | 145 | 101 | 201 | 192 | 288 | 156 | 25 | 16   |
| GWSPL600   | 520 | 316 | 360 | 291 | 252 | 160 | 93  | 175 | 206 | 288 | 175 | 40 | 16   |
| GWSPL1000  | 580 | 360 | 400 | 336 | 267 | 184 | 121 | 195 | 224 | 303 | 191 | 40 | 16×2 |

### OIL FREE SCROLL VACUUM PUMP



# **GWSPL**

### **Applications**

|                      | Industry     | Semiconductor | Power/Chemical | Food/ Pharmaceutical | R&D          | Analyzer     |
|----------------------|--------------|---------------|----------------|----------------------|--------------|--------------|
| Vacuum packing       | $\vee$       |               |                | $\sqrt{}$            | $\vee$       |              |
| Vacuum dryer         | $\checkmark$ | $\checkmark$  |                | $\checkmark$         | $\checkmark$ |              |
| Gas exhauster        | $\vee$       |               |                | $\sqrt{}$            | $\vee$       | $\sqrt{}$    |
| Oven / freeze-drying | $\checkmark$ | $\checkmark$  | $\checkmark$   | $\sqrt{}$            | $\checkmark$ |              |
| Vacuum processing    | $\sqrt{}$    |               |                | $\sqrt{}$            | $\vee$       | $\sqrt{}$    |
| Vacuum plating       | $\sqrt{}$    | $\checkmark$  |                | $\sqrt{}$            | $\checkmark$ | $\checkmark$ |
| Sample preparation   |              |               |                | $\sqrt{}$            | $\sqrt{}$    |              |

|                               | M          | lodel        |                | GWSPL75         | GWSPL150                    | GWSPL300                  | GWSPL600        | GWSPL1000       |  |  |  |  |  |
|-------------------------------|------------|--------------|----------------|-----------------|-----------------------------|---------------------------|-----------------|-----------------|--|--|--|--|--|
|                               |            |              | l/s            | 1.0             | 2.0                         | 4.3                       | 8.7             | 16.6            |  |  |  |  |  |
|                               |            |              | l/min          | 60.0            | 120.0                       | 258.0                     | 522.0           | 996.0           |  |  |  |  |  |
|                               |            | 50Hz         | m³/h           | 3.6             | 7.2                         | 15.5                      | 31.3            | 59.8            |  |  |  |  |  |
|                               |            |              | cfm            | 2.2             | 4.3                         | 9.3                       | 18.7            | 35.8            |  |  |  |  |  |
| Displace                      | ement      |              | l/s            | 1.2             | 2.4                         | 5.1                       | 10.4            | 19.9            |  |  |  |  |  |
|                               |            |              | l/min          | 72.0            | 144.0                       | 306.0                     | 624.0           | 1194.0          |  |  |  |  |  |
|                               |            | 60Hz         | m³/h           | 4.3             | 8.6                         | 18.3                      | 37.4            | 71.6            |  |  |  |  |  |
|                               |            | 00112        | cfm            | 2.5             | 5.1                         | 10.9                      | 22.3            | 42.8            |  |  |  |  |  |
|                               |            |              | Pa             |                 |                             | ≤40                       |                 |                 |  |  |  |  |  |
|                               | _          |              | Torr           |                 |                             | $\leq 3.0 \times 10^{-1}$ |                 |                 |  |  |  |  |  |
| Ultimate                      | e Press    | sure         | mbar           |                 |                             | $\leq 4.0 \times 10^{-1}$ |                 |                 |  |  |  |  |  |
|                               |            |              | psi            |                 |                             | ≤5.6 × 10 <sup>-3</sup>   |                 |                 |  |  |  |  |  |
| Noise                         |            |              | dB(A)          | ≤52             | ≤57                         | ≤61                       | ≤63             | ≤67             |  |  |  |  |  |
| Leakag                        | е          |              |                |                 | 1 × 10 <sup>-2</sup> Pa·l/s |                           |                 |                 |  |  |  |  |  |
| Max. Inlet                    | t/Outlet I | Pressure     | °C/°F          |                 |                             | 0.1 /0.13                 |                 |                 |  |  |  |  |  |
| Ambient                       | Operat     | ion Temp.    | MPa            |                 |                             | 5~40/41~104               |                 |                 |  |  |  |  |  |
| Max. W                        | ater Tr    | eatment      | G/h            | 50 60           |                             |                           |                 |                 |  |  |  |  |  |
|                               | Outp       | ut           | kW/hp          | 0.15/0.20       | 0.25/0.30                   | 0.55/0.74                 | 0.75/1.00       | 1.50/2.00       |  |  |  |  |  |
| Motor<br>3                    | Volta      | ge           | VAC            |                 |                             | 380/220                   |                 |                 |  |  |  |  |  |
| phase                         | Speed      | 50Hz         | rpm            |                 |                             | 1410                      |                 |                 |  |  |  |  |  |
|                               | , i        | 60Hz         |                |                 |                             | 1680                      |                 |                 |  |  |  |  |  |
| Motor                         | Outp       |              | kW/hp          | 0.15/0.20       | 0.25/0.30                   | 0.55/0.74                 | 0.75/1.00       |                 |  |  |  |  |  |
| 1                             | Volta      | -            | VAC            |                 |                             | 220/110                   |                 |                 |  |  |  |  |  |
| phase                         | Speed      | 50Hz<br>60Hz | rpm            |                 |                             | 1440<br>1680              |                 |                 |  |  |  |  |  |
| Inlet/Ex                      | haust      |              | mm             | KF25/16         | KF25/16                     | KF25/16                   | KF40/16         | KF40/16×2       |  |  |  |  |  |
| Dimens                        |            | , larige     | mm             | 350 × 210 × 245 | 430 × 250 × 280             | 490 × 290 × 267           | 520 × 316 × 360 | 580 × 360 × 400 |  |  |  |  |  |
|                               |            | nsion        | mm             | 400 × 300 × 340 | 550 × 400 × 420             | 650 × 450 × 480           | 650 × 450 × 480 | 750 × 500 × 520 |  |  |  |  |  |
| Packing Dimension  Net Weight |            | kg           | 13             | 18              | 32                          | 38                        | 52              |                 |  |  |  |  |  |
| Gross \                       |            |              | kg             | 21              | 27                          | 42                        | 50              | 65              |  |  |  |  |  |
| Cooling Type                  |            |              | - 5            | Air cooled      |                             |                           |                 |                 |  |  |  |  |  |
| Others                        |            |              |                |                 | V                           |                           |                 |                 |  |  |  |  |  |
| 5111010                       |            |              | With air flush |                 |                             |                           |                 |                 |  |  |  |  |  |



## **GWSPC**

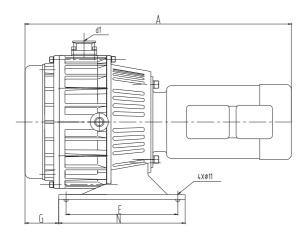


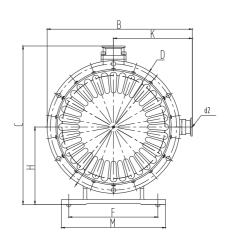
### **Construction and Operating Principle**

GWSPC series oil free scroll vacuum compressor is mainly constructed with fixed scrolls, orbiting scroll, main shaft, cooling fans, crank shaft kits, and bracket.

Its' operating principle is based on two spiral cylinders, one offset and orbiting against the other with an offset of 180°. Thus several crescent-shaped pockets of differing sizes are created. By means of an eccentric drive, the orbiting scroll is made to orbit about the fixed scroll, reducing the volume of the pockets and compressing gases from the outside towards the inside thereby pumping and compressing the gases.

#### Connection





| Size      | А            | В   | С   | D   | Е   | F   | G   | Н     | М   | N   | K     | d1 | d2   |
|-----------|--------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-------|----|------|
| GWSPC150  | 4 <b>2</b> 6 | 245 | 277 | 220 | 214 | 109 | 82  | 130   | 155 | 250 | 135   | 25 | 16   |
| GWSPC300  | 540          | 285 | 344 | 262 | 252 | 145 | 81  | 174.5 | 192 | 288 | 156.5 | 25 | 16   |
| GWSPC600  | 599          | 316 | 360 | 291 | 302 | 160 | 93  | 174.5 | 206 | 338 | 174.5 | 40 | 16   |
| GWSPC1000 | 605          | 359 | 397 | 336 | 303 | 160 | 103 | 195   | 224 | 338 | 191   | 40 | 16×2 |





# **GWSPC**

|                  | Model        |       | GWSPC150                  | GWSPC300                          | GWSPC600                    | GWSPC1000                 |  |  |  |
|------------------|--------------|-------|---------------------------|-----------------------------------|-----------------------------|---------------------------|--|--|--|
|                  |              | l/s   | 2.0                       | 4.3                               | 8.7                         | 16.6                      |  |  |  |
|                  |              | l/min | 120.0                     | 258.0                             | 522.0                       | 996.0                     |  |  |  |
|                  | 50Hz         | m³/h  | 7.2                       | 15.5                              | 31.3                        | 59.8                      |  |  |  |
|                  |              | cfm   | 4.3                       | 9.3                               | 18.7                        | 35.8                      |  |  |  |
| Displacement     |              | l/s   | 2.4                       | 5.1                               | 10.4                        | 19.9                      |  |  |  |
| 60Hz             |              | l/min | 144.0                     | 306.0                             | 624.0                       | 1194.0                    |  |  |  |
|                  | 60Hz         |       | 8.6                       | 18.3                              | 37.4                        | 71.6                      |  |  |  |
|                  |              | cfm   | 5.1                       | 10.9                              | 22.3                        | 42.8                      |  |  |  |
| ,                |              | Pa    | ≦30                       | ≦20                               | <b>≦</b> 10                 | <b>≦10</b>                |  |  |  |
| 1.000            |              | Torr  | $\leq 2.2 \times 10^{-1}$ | $\leq 1.5 \times 10^{-1}$         | $\leq 7.5 \times 10^{-2}$   | $\leq 7.5 \times 10^{-2}$ |  |  |  |
| Ultimate Pres    | sure         | mbar  | $\leq 3.0 \times 10^{-1}$ | $\leq 2.0 \times 10^{-1}$         | $\leq 1.0 \times 10^{-1}$   | $\leq 1.0 \times 10^{-1}$ |  |  |  |
|                  |              | psi   | $\leq 4.2 \times 10^{-3}$ | $\leq 2.8 \times 10^{-3}$         | $\leq 1.4 \times 10^{-3}$   | $\leq 1.4 \times 10^{-3}$ |  |  |  |
| Leakage          |              |       |                           | 1 × 10 <sup>-3</sup> Pa · l/s ( 1 | × 10-4mbar · I/s )          |                           |  |  |  |
| Max. Inlet/Exhau | ıst Pressure | MPa   | 0.1 /0.3                  |                                   |                             |                           |  |  |  |
| Ambient Oper     | ation Temp.  | °C/°F | 5 ~ 40/41 ~ 104           |                                   |                             |                           |  |  |  |
| C                | utput        | kW/hp | 0.37/0.49                 | 1.50/2.00                         | 1.50/2.00 2.2/3.00 3.00/4.0 |                           |  |  |  |
|                  | ing Voltage  | VAC   |                           | 3 phase,                          | 380/220                     |                           |  |  |  |
| Motor            | d rpm        | 50Hz  |                           | 14                                | 10                          |                           |  |  |  |
| Spee             | d rpm        | 60Hz  |                           | 16                                | 00                          |                           |  |  |  |
| Noise Level      |              | dB(A) | ≦57                       | ≦63                               | ≦65                         | ≦67                       |  |  |  |
| Inlet/Exhaust (  | Connection   | mm    | KF25/16                   | KF25/16                           | KF40/16                     | KF40/16×2                 |  |  |  |
| Dimensions       |              | mm    | 430 × 250 × 280           | 540 × 290 × 267                   | 580 × 316 × 360             | 605 × 360 × 400           |  |  |  |
| Packing Dime     | nsion        | mm    | 550 × 400 × 420           | 650 × 450 × 480                   | 650 × 450 × 480             | 750 × 500 × 520           |  |  |  |
| Net Weight       | Net Weight   |       | 18                        | 38                                | 46                          | 62                        |  |  |  |
| Gross Weight     |              | kg    | 26                        | 46                                | 55                          | 75                        |  |  |  |
| Cooling Type     | Cooling Type |       |                           | Air cooled                        |                             |                           |  |  |  |

### **COMPANY PROFILE**

From the setup of Geowell Vacuum Co., Ltd, we have been focusing on the development and supply of oil free scroll vacuum pump, oil free scroll vacuum compressor, oil free vacuum pumping system, oil free scroll vacuum pump tip seal, gas forefilter and OEM service to our customers.

In order to provide scroll vacuum pump with the advantage of clean vacuum, high performance, high reliability, and energy save, Geowell developed the whole series patent proved technology and special knowhow in design, manufacturing, assembly, inspection of oil free scroll machinery. We offer by far the GWSP, GWSPL and GWSPS series oil free scroll vacuum pumps, GWSPC series oil free scroll vacuum compressor, GWMS and GWRS series oilfree vacuum (high vacuum) pumping system, GWTS series tip seals, GWT series oil free vacuum system fore line filter and supply OEM serves.

We believe the integration of high performance and high reliability of oil free scroll vacuum pumps and compressor will bring the highest value to both our customer and ourselves. So, for this goal, we contribute our complete effort.

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