



**INNOVATIVE  
ENERGY SAVING  
SCREW COMPRESSOR**

**SHANGHAI SCREW COMPRESSOR CO., LTD.**

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**SCR 2021.11**

OIL FREE SERIES AIR COMPRESSOR

# XA&G SERIES

3.7KW-375KW



**SHANGHAI SCREW COMPRESSOR CO., LTD.**





ABOUT SCR

SHANGHAI SCREW COMPRESSOR CO.,LTD is a high tech Japanese joint venture with independent intellectual property, founded in 2000. SCR together with Anest Iwata focus on air compressor research and development, covering all aspects from manufacturing through to sales, service and technical support. SCR supply a complete range of products such as high efficiency permanent magnet variable speed air compressors, oil free screw compressors, oil free scroll compressors, bearing free and magnetic centrifugal blowers. The global sales and service network provide our customers with high-quality, energy efficient and environmentally friendly compressed air solutions.

SCR's statement of "power starts dreams" signifies the close relationship with their global partners, and suppliers. SCR is committed to building an industrial world with continuous improvement for both its customers, the environment and its employees.

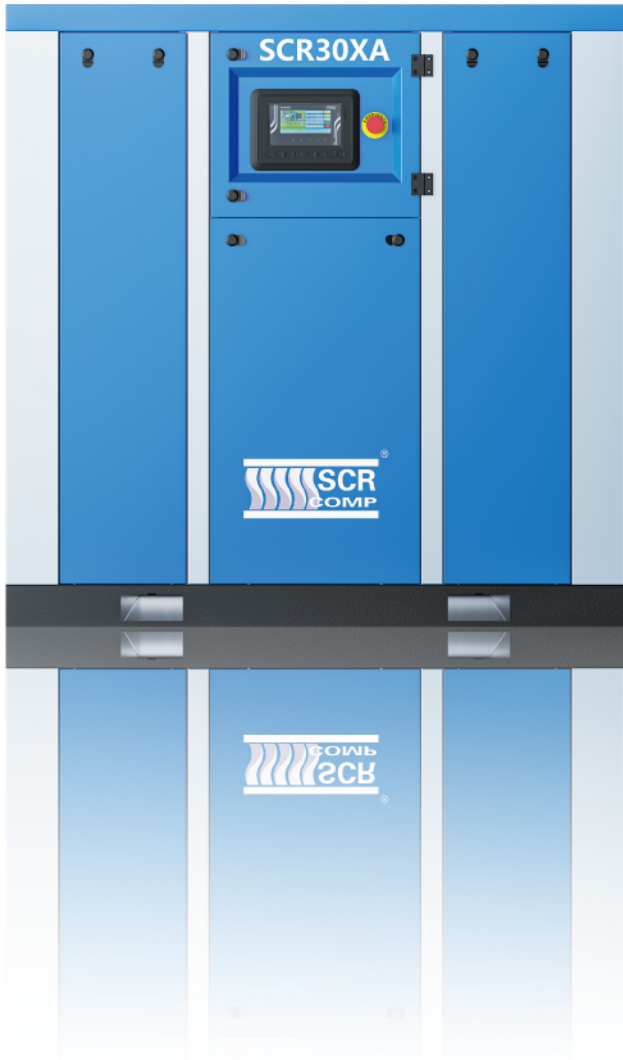


|                                                                                                                                         |                                                                                                                                  |                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|  <b>100000m<sup>2</sup></b><br>Square meters factory |  <b>83</b><br>Country exported                |  <b>50000</b><br>Global customers              |
|  <b>35</b><br>Professional certifications            |  <b>35</b><br>Sino-Japanese R&D team member   |  <b>500</b><br>Global sales and service agents |
|  <b>91</b><br>National patents                       |  <b>10</b><br>Industry standards              |  <b>21</b><br>Years of R&D                     |
|  <b>8%</b><br>Annual sales re-invested into R&D      |  <b>140000</b><br>Production volume from 2000 |                                                                                                                                     |





XA SERIES



XA SERIES

MOTOR POWER:3.7-45KW  
DISCHARGE AIRFLOW:0.4~4.2M³/MIN  
PRESSURE:7/8/10BAR

**100% Oil Free Air**  
Anest Iwata Oil Free Scroll Airend Originally made in Japan.  
The high reliability has been proven in the market over several decades.

|                                    |                                   |           |
|------------------------------------|-----------------------------------|-----------|
| Anest iwata oil free scroll airend | 100% Oil free                     | Low noise |
| Compact structure                  | Simple and convenient maintenance |           |

TYPICAL APPLICATIONS

Dentistry



Laboratory



Food Industry



Precision Spraying



High-end Printing



Medical





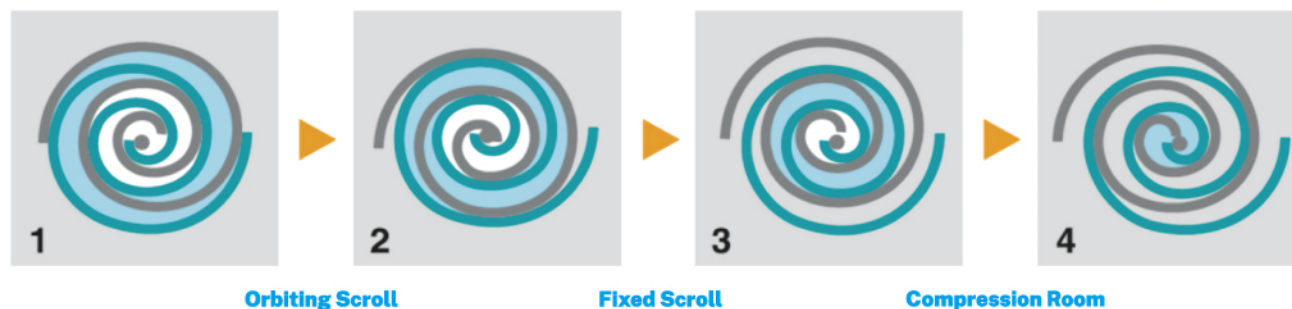
## OIL FREE SCROLL AIREND

- > Original Japanese ANEST IWATA airend.
- > Simple structure, easy maintenance, low noise and fast air supply.
- > No friction between orbiting and fixed scroll of the airend.
- > No oil requirement or lubrication means true Class 0 operation.
- > Long Maintenance Intervals.
- > Energy Efficient Operation.
- > Clean, 100% Oil Free Air.
- > Built in inter cooling.

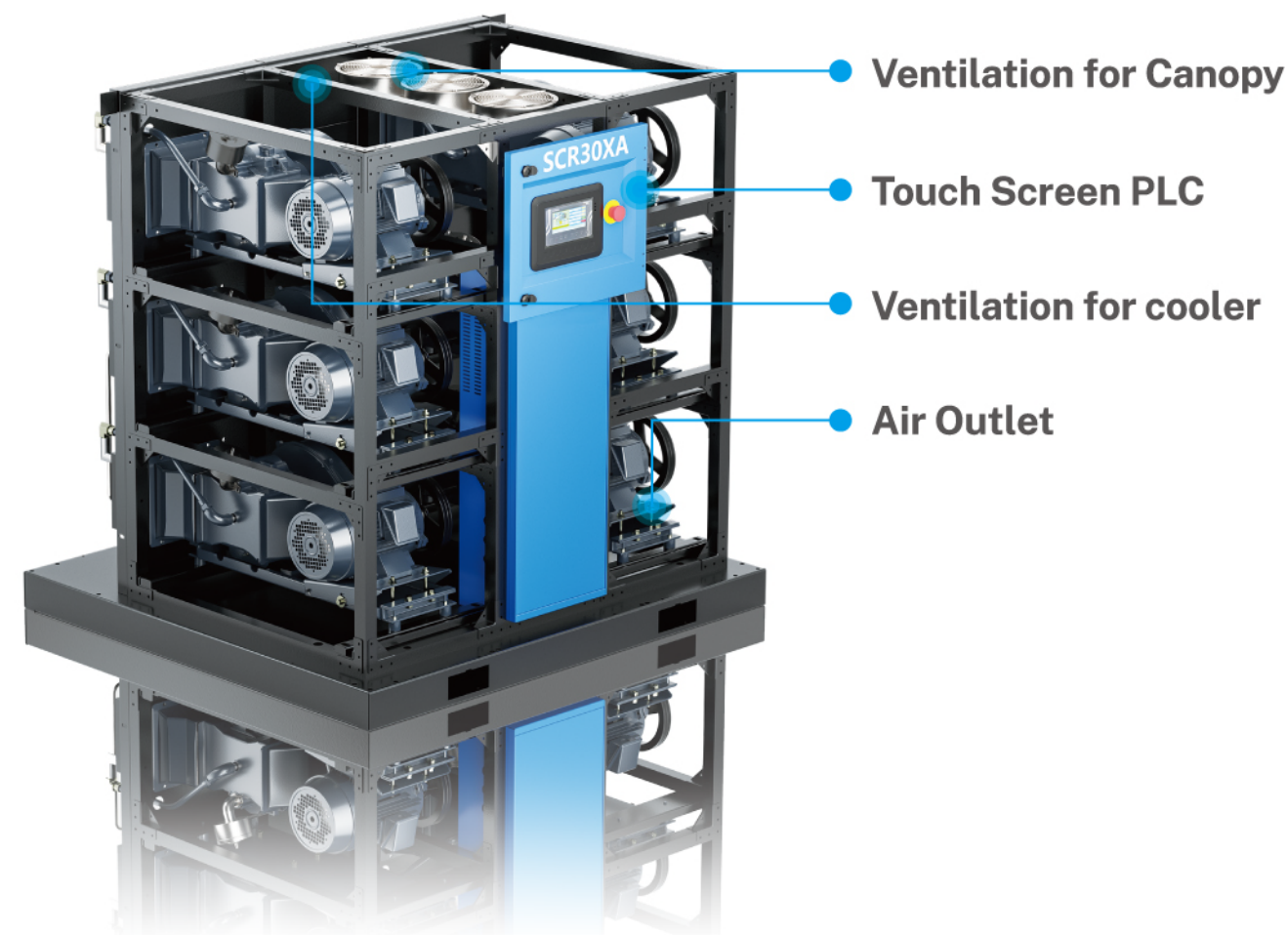


## SCROLL AIREND COMPRESSION PRINCIPLE

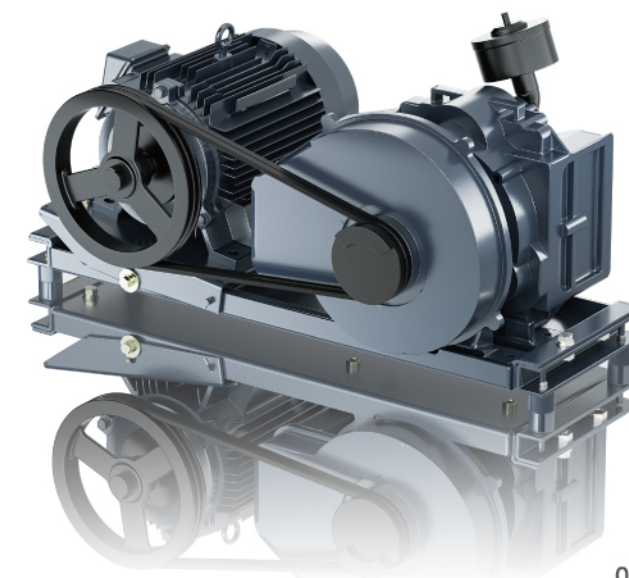
The orbiting scroll rotates in the order shown in figure 1-2-3-4. Volume of the crescent-shaped compression chamber gradually decreases. Air is compressed and discharged from the exhaust port at the center.



## COMPACT DESIGN



## TRANSMISSION SYSTEM





# INTELLIGENT ENERGY SAVING OPERATION

The compressor operates intelligently according to the air demand and selects the optimum number of airends to run.



| Model                                          | SCR5XA<br>8/10   | SCR10XA<br>8/10 | SCR15XA<br>8/10 | SCR20XA<br>8/10 | SCR30XA<br>8/10 | SCR40XA<br>8/10 | SCR50XA<br>8/10 | SCR60XA<br>8/10 |
|------------------------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Capacity<br>(L/MIN)                            | 0.4 / 0.35       | 0.8 / 0.7       | 1.2 / 1.0       | 1.7 / 1.4       | 2.6 / 2.1       | 3.5 / 2.8       | 4.8 / 3.5       | 5.6 / 4.2       |
| Power<br>(KW)                                  | 3.7              | 7.5             | 11              | 15              | 22              | 30              | 37              | 45              |
| Driven<br>Method                               | Blet Driven      |                 |                 |                 |                 |                 |                 |                 |
| Outlet<br>Temp (°C)                            | Ambeint Temp +15 |                 |                 |                 |                 |                 |                 |                 |
| Stainless Steel<br>Air Receiver<br>Capacity(L) | 50               | 230             | NO              | NO              | NO              | NO              | NO              | NO              |
| Power<br>Supply<br>(V)                         | 380V             |                 |                 |                 |                 |                 |                 |                 |
| Dimension<br>(MM)                              | 1100*650*980     | 1200*650*998    | 1300*800*1403   | 1300*800*1808   | 1400*1300*1410  | 1400*1300*1808  | 1620*1500*1640  | 1620*1500*1640  |
| Weight<br>(KG)                                 | 230              | 280             | 450             | 650             | 900             | 1300            | 1050            | 1200            |
| Outlet<br>Size                                 | Rc 3/4           | Rc 1            | Rc 1            | Rc 1            | Rc 1            | Rc 1            | R1 1/2          | R1 1/2          |

NOTE:

The capacity is measured as GB3853 standard.(equivalent to ISO1217 Annex C)  
Standard voltage is 380V/50HZ/3P, other voltage is available.  
Alpine/high altitude, high temperature, high humidity, high dust loads or other adverse working conditions will require specialized custom designs. These are available on special request.  
We reserve the right to make changes and improvements to the design and appearance. Specifications may change without prior notice.



G/GV SERIES



G SERIES

MOTOR POWER:37-280KW  
DISCHARGE AIRFLOW:5.7-47M³/MIN  
PRESSURE:7/8/10BAR

**100% Oil Free Screw Compressor**  
100% Oil Free Screw Compressor.World class airend original-ly from Germany GHH-RAND,high reliability proofed in the market for several decades.

|                                |                              |                                |
|--------------------------------|------------------------------|--------------------------------|
| GHH Airend From Germany        | 100% Oil Free                | High Efficiency Cooling System |
| Pre-Cooler to Help reduce Temp | Class 0 Certificate from TUV |                                |

TYPICAL APPLICATIONS

Pharmaceutical



Electronic Industry



Oil And Gas Industry



Food And Beverage



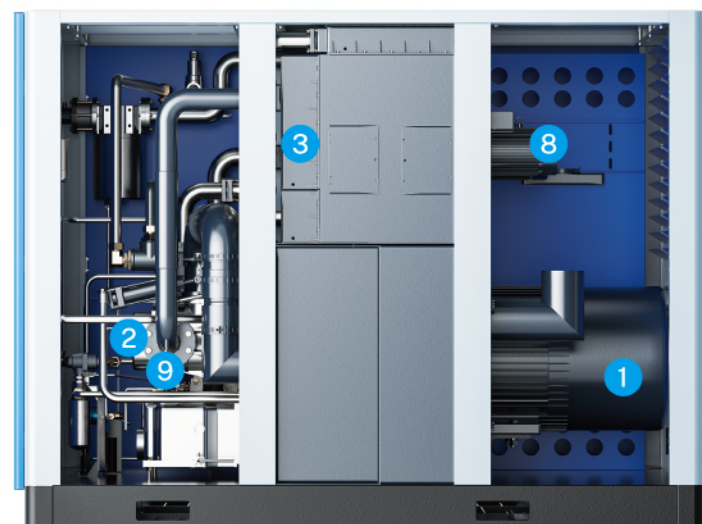
Medical



Automobile







## G/GV SERIES

EVEN MORE EFFICIENT

### 01-TEFC motor(PM motor is option)

- IE3 efficiency standards;
- IP55 protection grade;
- F Insulation Grade.

### 02-GHH Airend

- Original German GHH Rand airend;
- Stainless Steel Rotor;
- Dual Sealed;
- SKF bearings ;
- Long Maintenance Intervals;
- Energy efficient operation;
- Class 0 clean 100% oil free air.

### 03-Inlet filter

- Nano scale heavy duty;
- Filtration accuracy upto 99.9%;
- Captures dust particles below 0.3 micron;
- Pressure drop indicator;
- 2,000 hours service intervals.

### 05-Innovative flux sector inverter(option)

- CE/UL certification;
- Wide voltage design;
- Meet EMC C3 and C2 requirements;
- Built-in DC reactor;
- Independent cooling air duct design;
- Robust enclosure to trouble-free operation even in the harshest of conditions.

### 04-Inlet Valve

- Optimizes the inlet flow of the air end;
- No blow down losses;
- Maintenance free pipe design;
- High vacuum degree:700mmhg;
- Large suction area,special design for low pressure application;
- Prevents unloading and shutdown oil injection;
- Fluoro rubber for improved valve seal.

### 06-SCR 9000 touch controller

- 7" Full colour touch screen controller;
- Real-time operation/ maintenance/ alarm information;
- Full graphical flow diagram;
- Operation record/ chart display;
- Multiple languages;
- Weekly and daily scheduling, service history and planning;
- On board RS485 interface,modbus RTU.

### 07-Electrical control cabinet

- Siemens core electrical components are used to further enhance reliability.

### 08-Centrifugal fan (up to 220HP)

- High Reliability;
- Low noise level;
- High capacity for optimized cooling;
- Low power consumption.

### 09-All- stainless steel internal pipe system

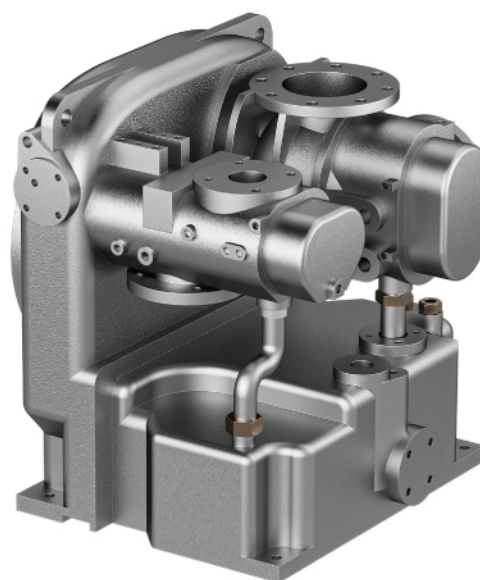
- All steel internal pipe work and compression joints are used to prevent leakage and premature ageing often seen with flexible pipes;
- Reduced friction losses.



## FEATURES & BENEFITS

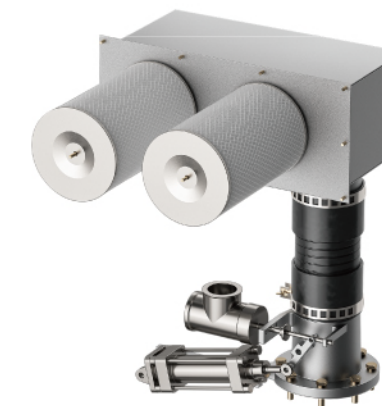
### 01-OIL FREE SCREW AIREND

Original German GHH Rand Airend;  
Stainless Steel Rotor;  
Dual Sealed;  
SKF Bearings;  
Long Maintenance Intervals;  
Energy Efficient Operation;  
Clean 100% Oil free air to Class 0.



### 02-PATENTED VENTURI PIPE TO REDUCE NOISE LEVELS

Dry compression often leads to high noise levels particularly at high speed operation. Thanks to the patented Venturi design, noise levels are significantly reduced.

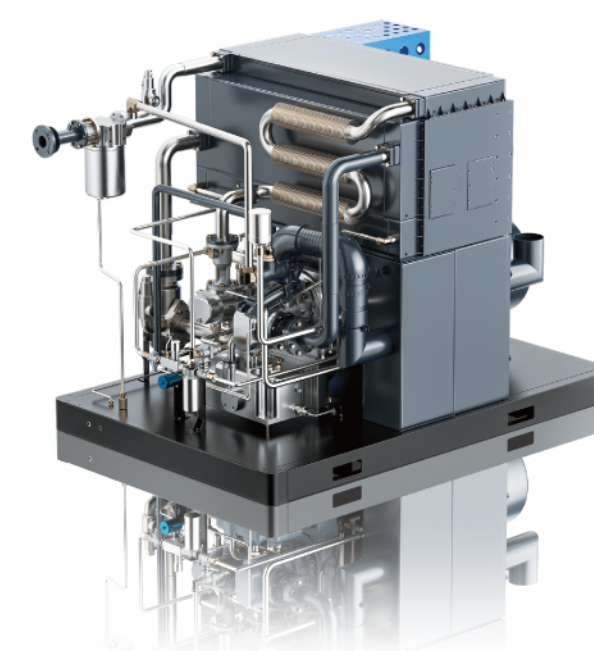
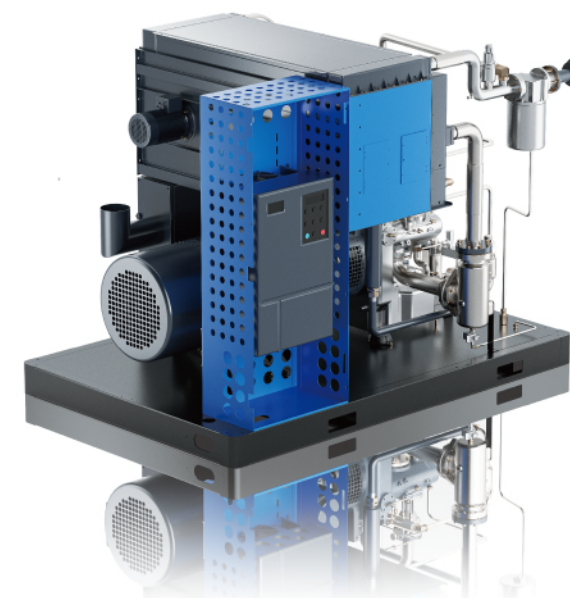


### 03-AIR INLET SYSTEM

The independent inlet silencer box ensures that the air filter inlet temperature matches the ambient temperature.

### 04-SILENT AIR FILTER SYSTEM

Pressure loss of air filter inlet structure <1000Pa.  
Reliable operation and easy maintenance.





## STATE-OF-THE-ART TOUCH CONTROLLER



**SUPPORTS UP TO 16 MACHINES**

Improved user friendly design  
Parameters can be modified without stopping compressor  
7" touch screen plc  
Modbus RTU protected  
RS485 interface  
Multiple warning and protection function  
Energy saving logic  
Overload/ Over current/ phaseloss/unbalance protection  
Pre-alarm system to avoid sudden failure  
Multiple compressor sequencing capability  
Remote monitoring capability  
Programmable start stop schedules  
Power consumption data is stored inside PLC

## SCR'S CLOUD SERVICE OPTION

### New air solution program with advanced IOT technology

#### > Anytime, Anywhere

Customers can monitor the live running conditions of SCR compressors anytime, anywhere and can be accessed through a Cloud service in real time. Moreover, alarm notifications will help prevent any unplanned down time.



### Reliable Security

VPN (Virtual private network) ensures the same reliable security level as the private network.  
User friendly Cloud service.

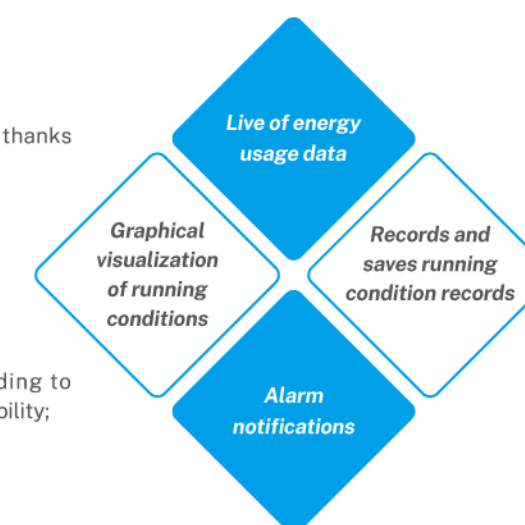
### Practical Use Of Cloud Service

#### Easy maintenance

Maintenance will become easier thanks to remote monitoring system.

#### Stable-operation

Preventive maintenance according to alarm notifications increases reliability;  
Live of energy usage data.



#### Energy saving

Monitoring the compressors actual conditions will help to improve energy use.

#### Trouble shooting

Remote monitoring prevents any unexpected maintenance issues and reduces downtime.

## Seven major characteristics

- On Board RS485 communication
- Intelligent PID flow regulation mode
- Accurate torque control
- Fast response speed for system pressure
- Fast acceleration and deceleration characteristics
- Closed loop dynamic control and high precision control
- Constant pressure control avoids over generating site air pressure





| Model       | KW  | HP  | Capacity (m³/min) | Pressure (BAR) | Dimension (mm) | Weight (KG) | Size  |
|-------------|-----|-----|-------------------|----------------|----------------|-------------|-------|
| SCR50GPM-7  | 37  | 50  | 5.7               | 7              | 2468*1250*1980 | 2400        | DN50  |
| SCR50GPM-8  |     |     | 5.5               | 8              |                |             |       |
| SCR50GPM-10 |     |     | 4.6               | 10             |                |             |       |
| SCR60GPM-7  | 45  | 60  | 6.8               | 7              | 2468*1250*1980 | 2500        | DN50  |
| SCR60GPM-8  |     |     | 6.6               | 8              |                |             |       |
| SCR60GPM-10 |     |     | 5.4               | 10             |                |             |       |
| SCR75G-7    | 55  | 75  | 9.2               | 7              | 2380*1580*1880 | 2850        | DN50  |
| SCR75G-8    |     |     | 9.0               | 8              |                |             |       |
| SCR75G-10   |     |     | 7.7               | 10             |                |             |       |
| SCR100G-7   | 75  | 100 | 12.2              | 7              | 2380*1580*1880 | 2900        | DN50  |
| SCR100G-8   |     |     | 12                | 8              |                |             |       |
| SCR100G-10  |     |     | 10.7              | 10             |                |             |       |
| SCR125G-7   | 90  | 125 | 16                | 7              | 2880*1960*2110 | 3700        | DN65  |
| SCR125G-8   |     |     | 13.6              | 8              |                |             |       |
| SCR125G-10  |     |     | 13                | 10             |                |             |       |
| SCR150G-7   | 110 | 150 | 19.5              | 7              | 2880*1960*2110 | 3800        | DN65  |
| SCR150G-8   |     |     | 18.2              | 8              |                |             |       |
| SCR150G-10  |     |     | 15.2              | 10             |                |             |       |
| SCR180G-7   | 132 | 180 | 23                | 7              | 2880*1880*1880 | 4100        | DN65  |
| SCR180G-8   |     |     | 22.5              | 8              |                |             |       |
| SCR180G-10  |     |     | 19.5              | 10             |                |             |       |
| SCR220G-7   | 160 | 220 | 25.8              | 7              | 2880*1880*1880 | 4300        | DN65  |
| SCR220G-8   |     |     | 25.5              | 8              |                |             |       |
| SCR220G-10  |     |     | 22                | 10             |                |             |       |
| SCR300WG-7  | 220 | 300 | 37.8              | 7              | 3350*2880*2080 | 5200        | DN100 |
| SCR300WG-8  |     |     | 37.5              | 8              |                |             |       |
| SCR300WG-10 |     |     | 34                | 10             |                |             |       |
| SCR340WG-7  | 250 | 340 | 45                | 7              | 3350*2880*2080 | 5500        | DN100 |
| SCR340WG-8  |     |     | 42                | 8              |                |             |       |
| SCR340WG-10 |     |     | 38                | 10             |                |             |       |
| SCR375WG-7  | 280 | 375 | 47                | 7              | 3350*2880*2080 | 5800        | DN100 |
| SCR375WG-8  |     |     | 46.5              | 8              |                |             |       |
| SCR375WG-10 |     |     | 41                | 10             |                |             |       |

NOTE:

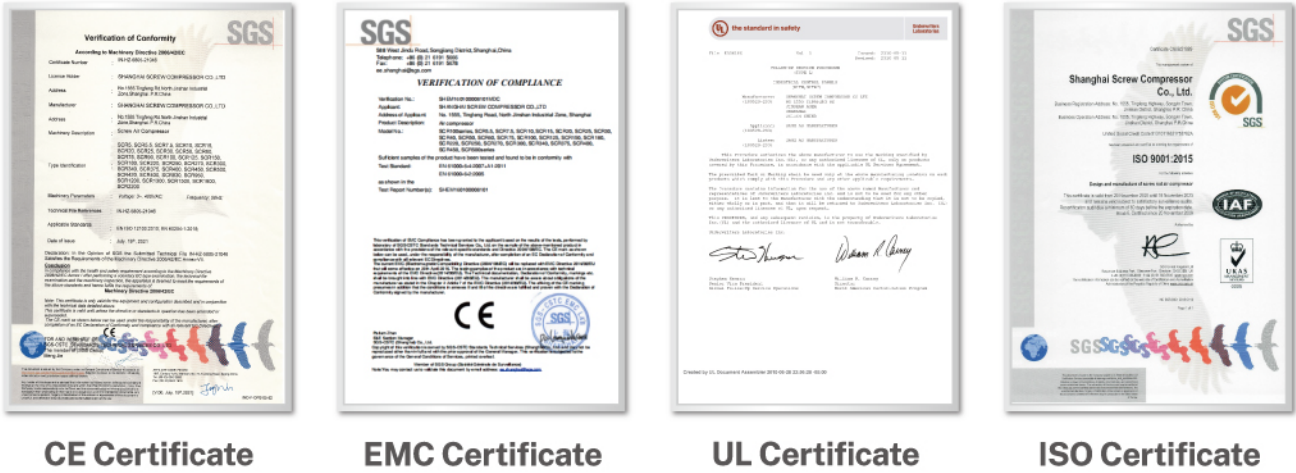
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- QUALITY CERTIFICATION -

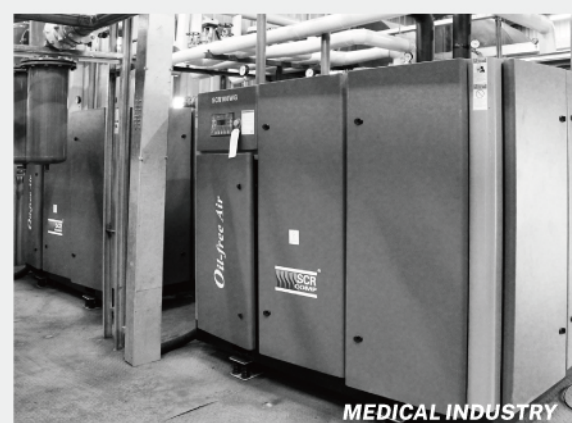
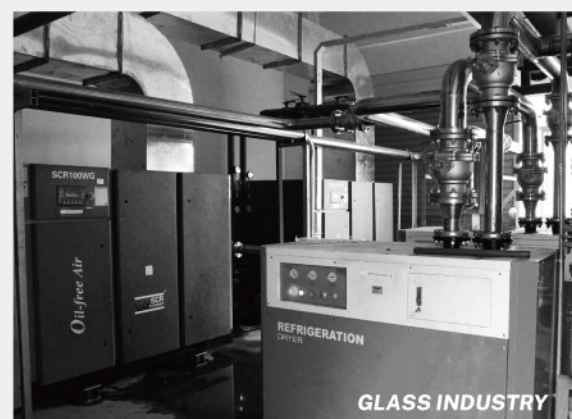


- CLASS 0 CERTIFICATION -





## CUSTOMER REFERENCE SITES



## 100% Oil Free Air

Energy efficient solutions, protect the environment and protect our resources.







## WORLDWIDE DISTRIBUTION CHANNELS

**LEGEND:**

- Headquarters
- Major global sales outlets

