



Scroll compressors

SCR-XA

power range 2,2 - 30 kW

Sino-Japanese joint venture

for the production of efficient compressors



SCR - compressors for the 21st century

Shanghai Screw Compressor Co., Ltd (SCR) is a manufacturing company established in 2000, focusing on innovation, research, development, production, sales and service in the field of industrial compressors. The SCR production plant is a modern facility with more than 250 employees on an area of over 80,000 m². More than 10% of the staff is in the engineering division with a focus on research and development.

SCR's product portfolio consists of energy-efficient screw compressors, including oil-free and two-stage solutions. SCR manufactures in accordance with ISO 9001 standards, holds CE certification for the European market, UL for the US market, Class Zero certification for oil-free machines and the performance of all machines manufactured is audited by SGS.

After more than 20 years of development, SCR has entered into strategic collaborations with many partners and its products are exported to more than 80 countries worldwide.

In 2018, SCR started a strategic cooperation in the form of a joint venture with Japanese manufacturer Anest Iwata, which implemented its quality and technology control system at SCR, helping to develop and bring new, energy-efficient solutions and even more reliable compressors to the market.



80.000

square meters
of production area



83

countries with a
commercial presence



50.000

compressor
users



140.000

units of compressors
manufactured since 2000

Class 0 oil-free air

Compressed air quality is defined by the ISO 8573-1 standard. This standard defines air quality classes in terms of individual impurities: water, solid impurities and oil.

The output oil content of the scroll compressors of the SCR-XA series reaches the highest possible class 0 according to this standard and is certified by the renowned notified body TÜV Rheinland.

| Class | Solid impurities | | | Water | Oil |
|----------|---|--------------|--------------|--------------------|-------------------|
| | Number of solid impurities per m ³ | | | Pressure dew point | Concentration |
| | 0,1 - 0,5 µm | 0,5 - 1,0 µm | 1,0 - 5,0 µm | °C | mg/m ³ |
| 0 | according to customer or supplier requirements and much stricter than class 1 | | | | |
| 1 | ≤ 20 000 | ≤ 400 | ≤ 10 | ≤ -70 | ≤ 0,01 |
| 2 | ≤ 400 000 | ≤ 6 000 | ≤ 100 | ≤ -40 | ≤ 0,1 |
| 3 | - | ≤ 90 000 | ≤ 1 000 | ≤ -20 | ≤ 1 |
| 4 | - | - | ≤ 10 000 | ≤ +3 | ≤ 5 |
| 5 | - | - | ≤ 100 000 | ≤ +7 | - |
| 6 | ≤ 5 mg/m ³ | | | ≤ +10 | - |

Application of oil-free air

More and more users demand the highest possible quality of compressed air from compressors. This is doubly true for oil content, which is undesirable in many industrial and service applications.



Dentistry and hospitals



Pharmacy



Labs



Semiconductor production



Beverage industry



Paint shops



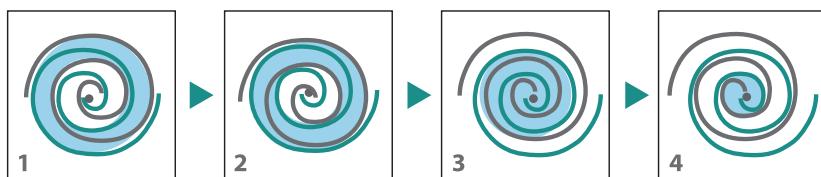
Plastics industry



Food processing

Functional principles

The scroll compressor produces compressed air on the principle of volume compression in an airend, which is made up of a fixed and a moving spiral. The moving spiral performs a circular motion, during which air is drawn from the surroundings into the space between the two spirals from the outer peripheral side. During movement, the air is carried towards the center of the assembly, reducing its volume and increasing the pressure.



Main advantages of SCR-XA compressors

- ✓ class 0 oil-free air
- ✓ extremely low noise
- ✓ high quality ANEST IWATA airends
- ✓ continuous air supply
- ✓ simple construction
- ✓ minimal maintenance costs

Extreme performance airends

SCR-XA compressors use airends from the world's largest manufacturer, the Japanese company ANEST IWATA. All airends are produced by a robotic production line and thus ensure first-class quality and excellent technical parameters.



Models with power up to 30 kW



Scroll compressors of the SCR-XA series are available in a wide range of capacities, including nominal power inputs from 2,2 up to 30 kW.

Starting with the SCR7XA model, the compressors are supplied in the so-called multi-version and are equipped with several airends.

This arrangement makes it possible to adapt the air supply to the current consumption by controlled switching on of the compressor units.

Design arrangement



- 1 input air filter
- 2 airend
- 3 V-belts
- 4 electric motor
- 5 air cooler
- 6 fans
- 7 safety valve
- 8 pressure and temperature sensor

Modern electronic controller

The SCR-XA series compressors are controlled by the modern SCR9000 electronic controller with simple operation via a 7" colour touch screen or eight navigation buttons. The SCR9000 unit has many useful features for monitoring compressor status, operating and service settings and necessary alarms.



SCR9000 benefits

- ✓ colour touch screen
- ✓ screen size 7"
- ✓ energy consumption metering
- ✓ network control of up to 16 compressors
- ✓ Modbus RS485 communication
- ✓ 4 pressure zones
- ✓ weekly scheduling
- ✓ automatic restart

For SCR-XA compressors with multiple airen, the SCR9000 electronic controller ensures their automatic switching on and off according to air consumption requirements. This significantly optimizes the operation. In addition, the operational status of the units is taken into account during operation, so that they are evenly loaded.

Technical data

| Order No. | Power | Total power | Pressure | FAD* | Output | Noise level dB(A) |
|-------------|-------|-------------|----------|----------------------|--------|----------------------|
| | (kW) | (kW) | (bar) | (Nm ³ /h) | | |
| SCR-2/7XA | 2,2 | 2,2 | 7 | 15,0 | 1/2" | 55 |
| SCR-2/8XA | | | 8 | 14,4 | | |
| SCR-2/10XA | | | 10 | 12,0 | | |
| SCR-4/7XA | 3,7 | 3,7 | 7 | 25,2 | 3/4" | 60 |
| SCR-4/8XA | | | 8 | 24,0 | | |
| SCR-4/10XA | | | 10 | 21,0 | | |
| SCR-7/7XA | 2×3,7 | 7,4 | 7 | 50,4 | 1" | 60 |
| SCR-7/8XA | | | 8 | 48,0 | | |
| SCR-7/10XA | | | 10 | 42,0 | | |
| SCR-11/7XA | 3×3,7 | 11,1 | 7 | 73,8 | 1" | 65 |
| SCR-11/8XA | | | 8 | 72,0 | | |
| SCR-11/10XA | | | 10 | 60,0 | | |
| SCR-15/7XA | 4×3,7 | 14,8 | 7 | 98,4 | 1" | 70 |
| SCR-15/8XA | | | 8 | 96,0 | | |
| SCR-15/10XA | | | 10 | 84,0 | | |
| SCR-22/7XA | 6×3,7 | 22,2 | 7 | 157,2 | 1" | 72 |
| SCR-22/8XA | | | 8 | 156,0 | | |
| SCR-22/10XA | | | 10 | 126,0 | | |
| SCR-30/7XA | 8×3,7 | 29,6 | 7 | 211,2 | 1" | 74 |
| SCR-30/8XA | | | 8 | 210,0 | | |
| SCR-30/10XA | | | 10 | 168,0 | | |

* FAD is measured according to ISO 1217, Annex C

Dimensions and weights

| Model | Length (mm) | Width (mm) | Height (mm) | Weight (kg) |
|----------|-------------|------------|-------------|-------------|
| SCR-2XA | 1 100 | 650 | 980 | 230 |
| SCR-4XA | 1 100 | 650 | 980 | 230 |
| SCR-7XA | 1 200 | 650 | 998 | 280 |
| SCR-11XA | 1 300 | 800 | 1 403 | 450 |
| SCR-15XA | 1 300 | 800 | 1 808 | 650 |
| SCR-22XA | 1 400 | 1 300 | 1 410 | 900 |
| SCR-30XA | 1 400 | 1 300 | 1 808 | 1 300 |



Minimal maintenance & service

Scroll compressors are characterized by a very simple design with the absence of an oil circuit system. All of this significantly eliminates regular maintenance to an absolute minimum.

Maintenance and servicing of SCR-XA compressors is provided by an extensive network of service partners, so that all necessary services are available as quickly as possible and with minimal costs for technician trips.



Rent a compressor for 5 years!

Thanks to our SCRent program, you no longer have to invest large funds in the purchase of a new compressor. In cooperation with Raiffeisenbank, we offer a modern way of financing by means of a long-term rental of the machine for 5 years and its repayment in monthly fees.



- you can get a **new compressor immediately** and without the need to release large financial amount for investment
- monthly lease payments are a **direct company expense** and are not subject to depreciation in accounting
- **clear costs for 5 years** - all compressor costs except energy are "all inclusive" in the SCRent monthly fee

What's included in the monthly fee?

SCRent is a comprehensive financial service that covers all costs associated with the operation of the compressor and compressed air treatment technology. The only thing the customer pays for himself is the electricity consumed. **The monthly fee payment is not just the price of the machine multiplied by 60 payments, but SCRent includes everything you expect to pay over the 5 years of the compressor's operation:**

| | | | |
|---|--|---|--|
|  | price of the selected model of SCR scroll compressor |  | regular maintenance throughout the rental period is already included in the price without limitation of the number of operating hours |
|  | price of selected types air treatment equipment |  | we will take care of free ecological disposal of oils and filter cartridges |
|  | attractive discounts on purchased equipment, spare parts and oil are included in the lease |  | the rental also includes the necessary pressure vessel inspections |
|  | the price includes transport of all equipment to the installation site |  | all breakdown costs during the rental period are our responsibility; emergency service is included in the rental |
|  | all compressors and air treatment equipment are professionally installed |  | compressors and air treatment equipment are insured against damage or theft at all times |
|  | we will train the operators to ensure proper operation and basic maintenance of the technology |  | ... and after 5 years you can buy the compressor at the residual price |



www.scr-kompresory.cz

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for the Czech and Slovak Republics:



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